

ABV-Indian Institute of Information Technology and Management, Gwalior

07 ARE YOU THAT MACHINE LEARNING ENTHUSIAST?

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Friends, Fun and Dreams"





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Editor Writes

Over a span of eight years, Abhishar has grown from the echelon of a magazine to being the voice of students and alumnus of IIITM. This journey began only because someone at some point of time, dreamt of making Abhishar a reality. As our former president and scientist, Dr. A.P.J. Abdul Kalam has said "Dream is not that which you see while sleeping it is something that does not let you sleep". This year, we intend. to dedicate Abhishar to every such dreamer out there, to the ones who reach out for the stars, both literally and metaphorically. Our theme 'INTO THE COSMOS' is a tribute to all the space exploratory missions, extraterrestrial intelligence search, planetary missions and much more that the human race has envisioned and carried out, symbolizing to the masses the message of 'dream big and make it happen'. Abhishar. stands on the foundation of memories and ideas of our dear friends - Lt. Abhinav Saxena and Lt. Tushar Sharma. It is from the sparks they have ignited that we gain zeal and energy to craft each and every edition of Abhishar. We have put together a set of wonderful literary and artistic works by the IIITM fraternity in the sections: Geeks' corner, a magic door to the world of technology and new trends in it; IIITM street, a bunch of memories and experiences from the campus; Lifestyle, for the free spirit to express themselves; Career mantra, to share experiences and act as a guide to the world outside the campus; Abhivykati, to raise voice against as well as speak for any socially relevant issue. We have tried our best to put together a piece of work worth reading and experiencing. Nevertheless, the success of Abhishar is only possible because of the encouragement we receive from its ardent readers. We hope that this version of Abhishar proves to be a worthy read. We walk with determination but can realign our goals only from valuable feedback from our readers. Do reach out to us to provide any such feedback or suggestion.

Happy reading!

-Haritha Nair

Director's Note

I am happy to know that 8th volume of "Abhishar" is coming out. Volume-by-volume, it is contributing to the enhancement of students' creativity. The articles are a testimony to the students' interest in emerging technology, campus life and in general, society. It is the fruitful outcome of tremendous efforts put in by the students' team. "Abhishar" has become a vibrant and efforts put in by the students' team. "Abhishar" has become a vibrant and efforts medium to vent out innovative spirit of the students' community of Prof. S.G.Deshmukh

Director, ABV-IIITM.

Registrar's Note

I am happy to know that students' team is very active to publish 8th volume of "Abhishar". Abhishar imbibes thoughts and ideas of authors expressed in the form of words and pictures. The name and fame of an institute depends on the caliber & achievements of the students. This magazine showcases the strength of our institute. Let this be a forum to exhibit the potential of students through their literary skill and innovative ideas.

Mr., R.P. Dwivedi Registrar, ABV-IIITM





With extreme delightment, I extend my warm wishes for the huge success of Abhishar's eighth edition. It is an appreciable platform to peep into the thoughts and minds of the students. It presents information about the latest evolving technologies, cherished experiences and captivating ideas in a deviceful manner.

Dr. Joydip Dhar Associate Professor, ABV-IIITM



I am delighted to write about the eight edition of ABHISHAR. Earlier editions of ABHISHAR have been well received over these years. It is my hope and expectation that ABHISHAR will continue to provide a fun filled experience to its readers. I congratulate the team for editing this edition.

Dr. K.K. Pattanaik Associate Professor, ABV-IIITM



It is commendable that ABHISHAR has completed a long journey. Thought provoking articles and in depth analysis of contemporary topics have become a reflection of hardwork, commitment and sincere professionalism of the entire team. I have every hope that this effort will continue to play its able part in the coming years as well.

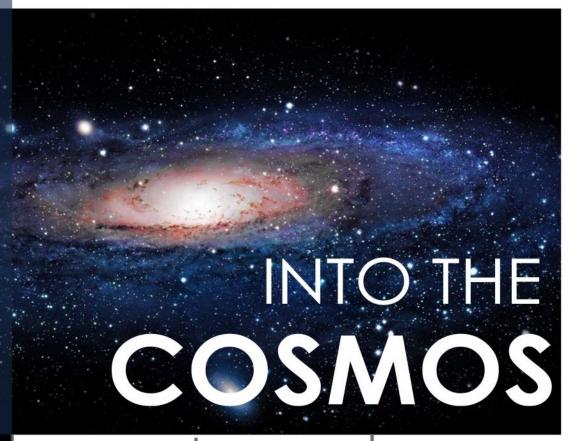
Dr. Saumya Bhadauria Assistant Professor, ABV-IIITM



After reading the last edition of Abhishar, I got hooked. It pitched on connecting the hearts of our young students but, more to the point, it expressed the right blend of ideas, experiences, innovations and feelings. I very much believe that the upcoming edition of Abhishar will definitely occupy an important place in my personal library, and will touch everyone's heart, mind and soul immeasurably as well. My sincere thanks to all the contributors for such a good magazine.

Dr. Anuraj Singh Assistant Professor, ABV-IIITM

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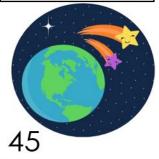
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ABOUT AASF & EVENTS

Being in an ever changing world with technology galloping at a pace never seen before in history, the forum is laboriously engaged in organizing a variety of formal and informal events every year, which guide the students to adapt better in techno-managerial world. Activities are based on the concept of peer to peer learning.





Technical Events

Windows basics, MS Office Linux and Hardware: Sessions/Workshops helping students understand the basics of computer science and IT.

Programming Languages:

Constitutional knowledge of the essential programming languages including C, C++, Java and Python.

Web Desgining week: Aquaintance to basic and advanced web development techniques such as HTML, CSS, PHP, SQL, JAVASCRIPT.

Photoshop: Knowledge of inducing pleasing effects to images using the functional tools.

AASF-ICPC,Codehub and Junior PCs:

Frequent Programming contests conducted in the format of ACM-ICPC to provide a perfect plat-tform to practice

Literary & Oratory Events

JAM: A fun buzz event in which participants have to speak without hesitation, deviation ad repetition and are challanged by their opponents.

Group Discussion: An event involving a lot of group dynamics to enhance the students' literal charms and issue analysis skills.



Block and Tackle: An event consisting of keeping a topic at centre of consideration and discussing pros and cons.

Composition de l'Image: This involves formation, narration and enaction of stories entrenched in pictures.

Managerial Events

Case Study hIQ: Managerial concepts to handle stories which present realistic complex and contectually rich situations that often involve dilemma and conflicts.

Case Study Contest: Aimed at improvising the ability of analysing, exploring, innovating and thus rendering applicable solution to a point at issue.

Quizzes: Quizzing events to help students remain updated to the recent advancements in the fields of business, IT and sports.

Brand Aid Contest: Event to pro vide an oppurtunity to blend creativity with originality and endorsing a product by elaborating its attributes and influencing the folks.





FOMO \o/ maybe



Riya Naval IPG-2011

In a quarter of a century that ued as their liking rested in adrenaline in the universe my eyes have seen, I have that place. time its either someone telling absolutely going along with these things. drifting from the generic stanrelated to your career?

in their initial training weeks they really appreciate. domains of Learning' and their initial up to their liking; some contin- "Entrepreneurship",

in the standard templates that were the hesitant lot, the ones macho swag, dedication and appeal to others. Most of the to whom the choice was not what not. Surely for some it is appealing me how they are fluid with all stayed because of FOMO; percentage of us youngsters are the 'COOL' things that are 'IN' because a lot of people said often unable to differentiate if right now or its me questioning machine learning is the future. we really like something or our why on earth do I not feel like Maybe this Fear of Missing impulses are a mere result of Out was not based on a social the ideas that the social media Whatsoever, it's the gut feeling contract of coolness but of has both sold to us and dictated of Fear of Missing Out that financially secure choices, us to go with. often rubs people in their faces Now obviously in career Now one should definitely try whenever they choose ways options such a feeling will new things, because you never always be in grey area. For know what might make you dards. But how valid is such a some it will work while others feel the zing, and such experifear to let you make a decision will keep on toling themselves ments are what shape you. One Maybe you did not get the com- extra effort to be at par with self-sustaining options possible plete idea of how such a feeling others, while not really enjoy- at hand. Maybe for a day freecan direct your decisions in one ing something that ideally lancing is the answer, maybe of the most important questions most of them shall have to put for another it is your own child of your life. In one of my up with for a decade or two, product, but all of these ideas friend's work-place, fresh-men until they move on to things should be given appropriate

Machine Learning and to mod- hands; so definitely such ideas fueled by FOMO. estly put, the lack of will to don't charm us. But as soon as Riya Naval (IPG-2011) is curstudy so much without it being one 'IIT waale senior' says rently working as java develall

floods our heads, pooling in all always felt to be 'Not Fitting' A third category of people our geeky vibes, risk taking but the right choice but still a huge

to respectfully fit in and put in should reel with all sorts of thought. Mostly the initial were given a choice between To get a better picture, we all years can go through this frisk-'Machine have seen people egging ing with merely any conse-'Normal others on ideas they firmly quences but once when you Coding', as they had put it. believe in. We all have one really feel like settling in with About 70% candidates interest- uncle always telling "Amway an ideal choice that is the time ed in 'Normal Coding' initially ka partner seller banna is the you start respecting your ideas. preferred to switch to 'Machine best choice", or the cool And by respecting, I mean Learning' because some of cousin casually putting the valuing the input from your their peers had made the intelli- idea of "Stock me pesa dalna brain or your guts. Nurture gent choice of taking up is smart", or the most common each "Genuinely Sustainable" "Machine Learning". Many of omni-advice "Government Job idea by putting deep thought to them eventually shifted back to best hai". Obviously we are it by analyzing all the pros and preferences smart, independent folks with cons, obviously needless to because of lack of appeal in all the world at the back of our put, discarding the ideas purely

the oper at HCL.



HISHAR V8.0 . CAREER MANTRA

Utkarsh Dwivedi BCS-2017



Optimistic nihilism: Finding purpose in a meaningless life

earth our home and started as well. But as human intelliwe realised that we were just are surely going to die alone. which as well comes together Hence, you were born, and there cer- ing the secrets of universe. ence when you die.

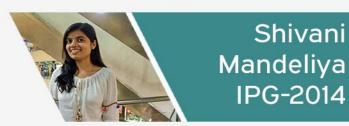
On the timeline of this universe ative philosophical stance but Did you see yesterday's cricket optimistic call our observable universe. ing. Your life's purpose can be being happy about everything.

existence is nihilism and being Dimensional being on his good books. positive about the same is friend by implanting certain termed as optimistic nihilism. 3-D objects in his house). So Nihilism is often seen as a neg- why care about anything at all?

which is approximately 13.8 it's the most scientific one. match - who cares? It probably billion years old, the first of us Nihilism also advocates rejec- was fixed or an illusion - but it came into existence just a few tion of all religious and moral surely was nail-biting and full thousand years ago. The how principles. Morality is necessi- of excitement. See that deliand why it happened are still ty of human society, so this cious dish that you always apparently unknown. We made area of nihilism does raise wanted to eat - who cares? It some questions. All things probably doesn't exist - but it enjoying everything it had to considered, optimistic nihilil- sure tastes good and provides a offer. Life was good, we killed ism is acknowledging the lack sense of fulfilment. See all other animals for our survival of meaning and purpose of life those humans you are in love and vice-versa happened to us and embracing it. As Jean-Paul with - who cares? They mayn't Sartre wrote - "We are left even be real and we might be a gence increased, subsequently alone without excuses" and we part of a computer simulation and everything may just be an living on a moist speck of dust Optimistic nihilism is under- illusion! Well yeah, but it still moving around an average standing that you are just a feels real and good to love and sized star, in a quiet region of speck of dust in cosmic vast- be loved. We can say that an average galaxy that is part ness and your life has no pur- instead of searching for a of a group of billions of galax- pose and there's no one divine meaning one should ies that make up the galaxy controlling it, which puts the create short and simple purposcluster, that itself is a part of a controller of your life into es, like helping at least five group of clusters that make up your own hands and lets you people a week, spreading smile the supercluster of galaxies, dictate your own purpose. on the faces of others, striving nihilism for something that you feel is and forms this thing that we isn't depressing, it's liberat- good for people and overall So, why did I tell you about anything ranging from a So just kickback, relax and this vastness of the universe? decent normal life doing a 9-5 enjoy yourself on this pointless Just to make you realise that job and having a nice family, and non-existent but undeniyou are insignificant and your to a more determined one, ably awesome and fun ride of life has no meaning, there was solving the unsolved mysteries life knowing that it ends in a not any divine reason for which of computer science or unveil- lethal fall, but you still ride to enjoy this journey, because it tainly won't be much differ- Actually, this is what is great might be your single shot at about life, that it doesn't life. So there's no reason why But you don't need to be dis- matter. No one has anything to you shouldn't live it as happily heartened by all these facts, prove, or anything to strive as possible, live a little more, this actually might be a good for. For life is nothing, all it love a little more, explore thing. The belief that nothing in may be is just an illusion things, watch great movies, life has real and permanent (maybe a joke played by a 5th play games and read lots of



An introduction to the stock market



The sole purpose of this write-up is to throw some light on the big Indian stock market the "big share market."

organization Every instruments. Bonds, deben- various methods. tures, commercial papers, gov- According ernment securities (G-secs) are approach is called debt financing.

When funds are raised through How the sale of shares it is called works? equity financing. Shares are Equity-financing process is include basically units of ownership in governed by rules imposed by Exchange, Ahmedabad Stock a company. When you buy the a regulating authority to safe- Exchange etc. shares of a company, you are guard actually buying rights. Out of the company's earnings, a fraction is provided to its shareholders. This is whole share market. known as dividend. Shares are There are four main partici- Buying and Selling of commonly two types:

- 1.Equity / Common shares: Gives voting rights, is risky. 2.Brokers Gives profit when the compa- 3. Traders-investors ny is earning profits.
- 2.Preference shares: Rate of

Dividend on these shares is paid in priority to the equity shares.

and how it works. Some of us It is important to note that not stocks are issued to investors are totally ignorant of stock everyone can buy ownership according to their bid. The market jargons and keep won- rights in any company. When a shares of a company continue dering what is SENSEX or company goes public, it means to be traded after the IPO. NIFTY. We understand that the anyone can invest and buy its These issued stocks are then SENSEX is going up and down shares. The purpose of going ready to be traded by the invesbut how does it really work. public is mainly to expand. tors in the secondary market. In What the hell is this SENSEX? The process when the company the secondary market, I'll be writing about all such offers its stocks for everybody transactions queries to help you understand is called Initial Public Offer- buyers and sellers occur to ing (IPO).

needs On the basis of amount of cap-value of stock rises or falls. funds for its functioning. These ital it wants to raise from the Buying stocks or shares isn't funds are garnered from banks, market, a company decides the like shopping clothes from a promoters or shareholders. An amount of shares to be issued. mall where you can pick up organization gets funds from The value of the individual clothes and pay money at the banking institutions via debt shares is determined through counter. Because unlike malls

the

debt instruments. This process - Preference share capital) / main stock exchanges in India Number of equity shares.

the share

investor and (Securities and

pants in a share market:

- 1.Stock exchange

- 4.SEBI

Stock exchange is the plat- fies you and the transaction is dividend is fixed. Less risky, form where financial instru- done. The share is debited to ments stocks

derivatives are traded. Once a company is listed in the primary market through IPO, the

between make profits. During trading,

stock exchanges are not in asset every corner. Stocks are bought from stock exchanges like New some of the commonly used Value per share = (Net Assets York Stock exchange. The two BSE (Bombay market Exchange) and NSE (National Stock Exchange). Others Calcutta Stock

> their Stock brokers can counsel you ownership investment. In India, SEBI about what and when to buy, Exchange offer advices about buying or Board of India) regulates the selling, can execute orders for investors.

The broker passes your buy order to the stock exchange, which searches for a sell order for the same share. Once a match is found, the broker notiand your DEMAT account. Similar-



ly you can sell your stocks.

used to place buy or sell order. rise are called bulls. Another account

Suppose you go to a shop to Stock Market Index: wallet and pay the money. In general. this case, the wallet is trading What is this Index? DEMAT account.

simplify. bank account to ferred to the seller and the index. electronic form.

ticular stock is transferred to trading account from DEMAT into the savings account.

broker. Some of the famous Zerodha, ICICI, ShareKhan, India are: Axis Direct and so on.

Bear and Bull market:

Every day market goes up or 2.Sectoral indices: BSE down depending on various circumstances. When market is upbeat i.e., stock 3.Broad-market indices like values and indices are apreci-

ating their value, it's called 4.Market capitalization based You must have noticed a new 'Bull Market'. A bull market is term that I wrote in the previ- the result of an economy doing

DEMAT account is used which downwards i.e., stock prices resentative bear market.

buy a biscuit packet. You We have talked about market CNX IT represents IT market. You take out money from your through index movement in tion,

is jumping or the market is fall- indices.

stocks.

- 1.Benchmark indices: BSE SENSEX and NSE Nifty
- Bankex, FMCG index and CNX IT
- BSE 100 and BSE 500

indices like BSE Smallcap and BSE Midcap.

ous sentence i.e., DEMAT well - high GDP, stable gov- BSE Sensex is made up of account. Trading and DEMAT ernment, low unemployment stocks of 31 well established accounts are linked to one etc. People who are optimistic companies like Axis Bank, another. Trading account is or believe that stock prices will Asian Paints, Adani ports, Bharti Airtel and so on.

called When the market is moving These indices are used as a repof the acts as a depository for your are depreciating, it is called market. BSE SENSEX and NSE Nifty represent overall market performance. Similarly, choose your choice of biscuit going up and down. This fluc- Some key events like declaraand finalize the transaction. tuation in the market is evident tion of monetary policy, infla-**PMI** (Purchasing Managers Index), union budget, corporate earnings account and you act as the You may often hear that market announcement etc. affect these

when you're ing. However if you read the So this was a brief introduction buying, the required money is stock table you will notice that about the share market. When I transferred from your savings only few stocks' value have say it is brief, it really means trading changed. Then what does this that there is so much more to account. Once the order is falling or jumping of market learn about it. As an investor, finalized, the money is trans- mean? It actually refers to an you must have all the information. Only then you can decide stock comes into your DEMAT Stock market index acts as a how much money to invest, account in dematerialized or barometer of the whole econo- where to invest, what to sell, my. Few companies are identi- what to buy and most impor-When you're selling, the par- fied from those listed at the tantly how to save yourself exchange. Some similar stocks from stock market fluctuations. are grouped together to form an Because it can make you richie account. After transaction, the index. This grouping is on the rich in just a few days or can money earned is transferred basis of industry type or the devastate you in minutes. So, company size. The value of the read about the famous invest-You need to open a trading and index is calculated using the ment strategies and develop a DEMAT account with the values of the underlying strategy of your own. Maybe you don't need to invest money brokerage firms in India are Some important indices in now but I am sure this knowledge won't go waste. It will definitely guide you in future. 🧘





Damsels in distress



Once upon a time, in a land far mind of the kid! The same kid parently, the only gift a prince tive in a tower tall enough to beautiful dragon, find the princess, kiss live ever after.

Does it ring any bells? Well, Aurora! another group of words written in a colourful book, the effects talk to animals and wait for the isn't your work right? your own? Well we have just man. sown the seed of a "happy and Well the only gift a princess To all the girls, when was the

so that as soon as Aurora opens raising voice for them'!

than that. Imagine a 5 year old you get the idea that men are happily ever after.

away, a princess was held cap- now watches a movie of the could get is of muscles as if princess Aurora, singing drains your strength.

touch the skies. It was guarded whose "hair are like sunshine" This isn't going to be just anby a fierce red dragon that and "lips so red that even roses other article focussing on typibreathed fire and shone wings are ashamed". Literally all cal women roles, but my take wide enough to cover the entire Aurora does to receive a "true on how both genders suffer tower in a go. Only a true hero, love's kiss" is be beautiful and from these ideologies especiala warrior of a kind could brave sleep like a child. Not to forget ly boys, who are often ignored all the odds and save the the prince should be blonde, because 'hey they are strong, beauty. He must fight the macho and handsome enough, they do not need anyone else

her to wake her up from her her eyes she has to fall in The idea that the kid has gotten eternal sleep and then happily "love" with him. Well even is now going to shape his perlight ain't that fast, dear sonality. For him his girlfriend should be an Indian version of this is the classic overview of The next day the kid reads the Aurora, as gentle as Cinderella, every fairy tale that we have story of Snow White in his en- who can take care of him like been reading and watching glish class. Every dwarf is a Snow White. While his friend, since our childhood. And al- hapless dummy who lives like the girl at the next bench wants though it might seem to be just a nomad. It's after Snow White to be this perfect princess who comes in their life that they are is in the hope that one day she "saved" by her dusting, cook- would get the prince of her of these tales are much more ing, washing and tidying. So dreams and they would live

being told the magical story of hopeless and if it weren't for a In reality, a damsel in distress Cinderella, a girl whose only woman they would die in that isn't a princess in a dragon virtue is that she can listen to dirty pile of clothes. Knock heated fort. You are a damsel, if the rants of her stepmother and knock cute dwarfs, apparently you are bound by the limits set stepsisters without complain- you never learned these from up by conventional society ing, cook delicious food, can your mother, because hey, it rules. To all the boys, when was the last time you cried at the top handsome prince to bring her He also comes to know that all of your voice and weren't the glass slippers and save her men are supposed to protect judged by people? When was from her misery. Really Cin- and be the saviours of the prin- the last time you could freely derella? Could you not just cess. Prince Eric and Phillip ask a woman for her help and raise your voice once, take that are the ideal men who can weren't termed as less manly? talent of yours of singing and never lose and only by saving When was the last time you sewing and lead a happy life on a woman can you be a true weren't mocked when you said pink is your favourite colour?

magical" life in the mind of the can get from fairy Godmothers last time, you rode a horse and is the gift of singing, as if weren't termed as less feminine strength, courage and wits are and more of a tomboy? When not in the spell book. And ap- was the last time, you said you



don't know how to cook and "Girls can't do that". people taunted "what would It is normal tendency to like support your head. you do after marriage?"

needles, we have come up with me too'? "How will you impress your dier if given proper training. "Act like a lady" and ends with shoulder and still be the man

any colour. It is human to cry. What we portray to the world

girls, everything starts with let his tears flow on your ten by the master - by you! A

whose chest is always there to

Since in this 21st century, we It is normal to stop acting like a as who we are is like the texts can't afford to put people in soldier everytime and for once we write on whatsapp. One humongous just say, 'hey I am tired pro- minute it shows typing for a dragons and invent sleeping tecting you, could you protect long time and then you send just a word or so, because you a new way to stereotype gen- The condition is improving for backspace, delete and filter the ders. A man isn't a man until the female counterpart, with words. But who you truly are is he has got muscles and a movies like Frozen, where the like the back pages of your woman isn't a woman until she love of sisters overshone ev- notebook-the doodles, the fun has a sweet voice. For every erything else, Brave, where you, the emotional you, withtear of a small boy, there are Merida asked her own hand for out any filters which you can ten people saying, "Boys don't her marriage as she could take never delete. You can only rip cry, shut up!" For every jar he care of herself and Mulan off the page but for every page cannot open, a couple of where Mulan proved that a girl you tear, the corresponding friends will always mock him, could fight like any other sol- paired page also starts coming off.

crush?". For every seat you are However we are yet to see a Only when we rise above these not giving up even in the gen- movie where a boy likes cook- stereotypes set by ourselves, eral compartment because you ing, tidying and cleaning and can we write our own story, our are also a human and must be still be our same hero we can own fairy tale. There will be tired too, there is always an look upto in times of needs. We nothing more beautiful than the "What are yet to witness stories where perfect imperfection in your sanskaar has he got?". And for a man can hug you tightly and story because it would be writ-

Daddy, walk alongside

Not yet ready to face the odds of the life the harshness of the world and terror of the night with you around, I will walk with pride I want you Daddy, to walk alongside.

Not big enough to make the right choice in walks of life, I stumbled twice without you I feel defeated I want you Daddy, to walk alongside.

Not leading the life of success is my biggest fear stories of your courage and strength motivates me a lot you are the ends of my rainbow and make my life glow So I want you Daddy, to walk alongside.

Ritika Tomar IMT-2018





Are you that 'Machine Learning enthusiast'?



Gaurav Agarwal **IPG-2015**

and then run. We are in the crawling stage when it comes to applying Machine Learning"

-Dave Waters 'Machine Learning', 'Deep Learning', 'Data Science' etc. are some buzz words of the present time, especially here in IIITM. There was a time when our seniors and their seniors started studying and working on these around their BTP time (which happens at the end of 3rd year), but today the scenario has really changed a lot. I see every next person, especially my juniors from all the 3 years wanting to jump in it. Although I am not complaining that this is bad but I really wonder that is it really their desire to learn this or just another sheepwalk has begun? Because I can really say that at least more than 50% of those who tag themselves as 'ML Enthusiast' do not actually know what Machine Learning

ML is not just about training your data on a model, not limited to knowing some terminologies or writing few pieces of codes. There's neither any magic involved nor any set of 'if-else' statements (that some people believe), rather it is pure mathematics that governs each and every thing. Unfortunately, a large number of those so called 'ML Enthusiasts'

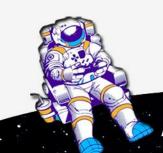
"A baby learns to crawl, walk focus just on implementation, things in depth). Also, be prenot even knowing what their code is actually doing behind the curtains. Another funny part of the story is they jump directly to Deep Learning thinking that anything except 'Neural Networks' is not worth

> Always remember that Tensorflow, Keras, Scikit-learn or any of their other siblings do not form the foundations of this domain but Linear Algebra, Probability & Statistics do. One needs to realize that ML is not like Web, Android or any other development stuff so don't go in the direction of becoming an ML 'developer' by just importing libraries and using functions but work on becoming a data 'scientist', who first understands theory, formulations and logic and thereafter begins experimentation. This is what distintwo. the It guishes definitely require more time and patience but if you genuinely want to learn then this is the right way. Being aware that there is much more in this vast field to know, I always call myself a 'beginner' because I am still learning.

> For a short reality check I also want to tell that you don't find jobs and internships that easily or with that handsome a pay in this domain at the initial level. unlike your friends in development. Any big company wants only ML experts and many a times with a PhD too (that's why it becomes more crucial to

pared to face the fact that at present there are very few companies that visit campus to hire for Data Science, so you might have a hard time looking for off-campus jobs. But once you manage to get one (could be at terms less than expected), there's only a few years of experience that you need to take a big shot. Now, if you honestly think that this is actually the domain in which you want to work, then don't just rush things, take one step at a time. No doubt internships are a good way to learn things but many beginners enquire me about getting an internship and the point is nobody would take you as an intern unless they feel that you are capable enough. So don't be in a hurry, at least learn some basics first and do a couple of

'good' projects (I do not mean that you count the Titanic or Digit Recognition as projects). There are some other great ways through which you can hone your skills, one of my favourites is 'Hackathons'. When I participated in my first hackathon I realized that it had taught me a whole lot of big & small things. Due to the little time available and so much of competition around, the pressure of converting your idea into a presentable product is really high and challenging.



really is!



At that moment, you can't just explore new and cool stuff. say that you don't know something because your motive is to get it done by any means. Plus even if you're just a Machine Learning guy you must have at least some basic knowledge in the development domain too, for example, to integrate your Blockchain, if things fall into being aware of all its dimenmodel in the final application. place then you might be able to sions, when you truly feel that Only by working on real life projects through hackathons or internships can you learn these things.

For the 1st and 2nd years, I don't blindly follow any trend because you have the time to

that I have gathered till now. to. A

I am neither a master of this There are several other inter- domain nor do I have a success esting fields that also have story to tell. I am just another great future scope but nobody student who found his interest is working on them in our insti- in it and picked it up accepting tute yet. Try your hands on both its pros and cons. That's IOT, Augmented Reality / Vir- what I really want to convey tual Reality, Cyber Security or from this article that even after create a new trend and I truly you want to pursue it, then only believe that this kind of diver- continue with it. Don't just get sity is very healthy and impor- drawn by its popularity betant for any institution like cause this is a domain which ours. What I have written in offers all the opportunities to have one piece of advice that this article are out of my own the ones who really know it but experiences and realizations none to those who just pretend

जिंदगी

जिंदगी नाम जिंदादिली यार है, हौसला थोड़ा दिल का बढ़ा लीजिए। चाहते हो जो हासिल वो हो जाएगा, थोड़ा मेहनत की चादर बड़ा कीजिए।।

यून गमगीन हो उलझनो में उलझ, उलझने देख बस मुस्कुरा दीजिए। जिंदगी नाम जिंदादिली यार है, हौसला थोड़ा दिल का बढ़ा लीजिए।।

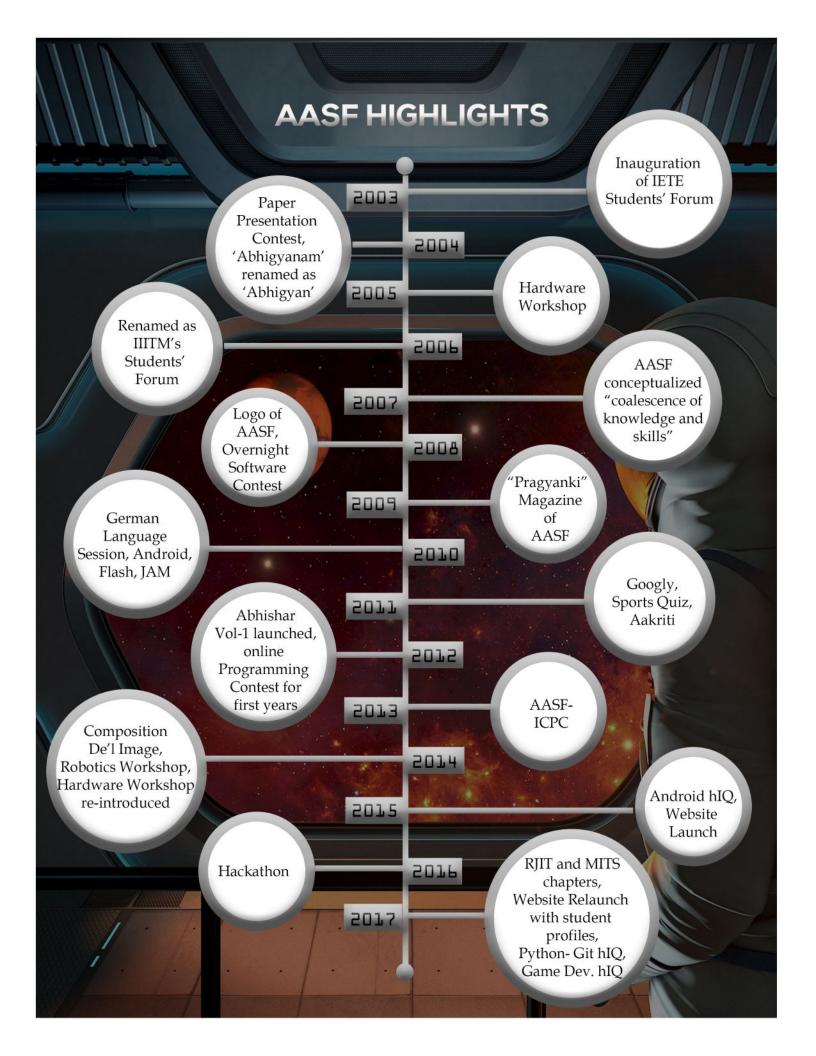
जो भी उलझन है हंसकर सुलझ जाएगी, मन को थोड़ा सा बस हौसला दीजिए। जिंदगी नाम जिंदादिली यार है. हौसला थोडा दिल का बढा लीजिए।।

यूँ परेशान होके न मायूस हो, यार अपनों की थोड़ी दुआं लीजिए। ज़िंदगी नाम ज़िंदादिली यार है, हौसला थोडा दिल का बढा लीजिए।।

तू अकेले ही मंजिल को पा जाएगा, बात मेरी ये दिल में बिठा लीजिए। जिंदगी नाम जिंदादिली यार है, हौसला थोडा दिल का बढा लीजिए।। प्रशांत द्विवेदी IPG-2016









PUZZLE ONE



I speak
without a
mouth and hear
without ears.
I have nobody, but
I come alive
with wind.
What am I?

What English word has three consecutive double letters?

What are the next three letters in this combination?
OTTFFSS

Draw one line to make it true: 5+5+5=555

What can travel around the world while staying in a corner?

What goes up and up, but never ever comes back down?

Writing my first book: The journey



3rd December 2016.

ents' anniversary falls. Also, it's the day when I decided to an author someday. It was the my day when I decided to become a doer.

To be frank, starting to write to a large set of people. and recollection of my father's struggles, his relationship with pened with yours truly as well. But, as I stated above, starting up giving a lot of meaning and That's because I had already what my first book would be when he self-published his clarity in my head about where Himalayan head, I had hit a cul-de-sac. I from writing my much delayed ran out of ideas to type out book. to take the reader to that waste another minute. intended end of my tale.

So, that was it- A Full Stop. started writing my debut book, the idea that I was not ready to topic yet. A 2,000-word article made some realizations.

was still certain that whenever a father's remembrance which would take his tale full

Quoran, Treasure" His

I pressed the reboot button! It was 27th November 2017, topics that I decided to craft the Just within a week of having the day when I reopened that tale around- my relationship forgotten word document on with my father, his struggles, I gave up. I had succumbed to my laptop and read all that I the differences we held, the had written almost a year ago. way I mistreated him towards write an entire book on a single After parsing through it all, I his last years, how his untimely

not so much. So, I took a lot, and that had improved my That's the date when my par- hiatus. A year long break. But, I writing skill greatly. I was not good writer I was to write my first book, neither am I now. However, I do something more than just the theme would be the same. had gotten way better at the contemplating about becoming It had to be a eulogy written in craft. Thus, I had to rework everything I had written earlier, else that would not have of struggles, love and dreams matched up with rest of the book that I was to write. my debut book wasn't tough at However, as they say, just a Secondly, I had now learnt that all. It was set to be a memoir spark can be enough to light up just sitting in front of the a fire. Something similar hap- laptop screen, hoping that thoughts would come out on me and my life with my mother At times, people or things that their own as I would type, it after his untimely departure. don't mean anything to us end just wasn't going to work that way. If I had to write a book to write the book was easy. direction to our lives. A fellow that would make me feel proud Divyansh Mundra of myself, I had to do a lot spent several hours thinking had a similar impact over me more thinking and planning before taking to typing down about. Thus, I had absolute debut book, "The Secrets of things. Thus, I opened a sepain rate word document on my I wanted to start the tale, and November 2017. Even though laptop and started typing in it where I wanted to end it. How- he was a nobody to me, him everything that I wanted this ever, after a mere 5-6 days of publishing his book moved book of mine to be about. I typing down all the thoughts some part inside of me- the wrote down in brief what story brimming at the top of my part that had been stopping me about my father and myself I wanted to tell. This exercise achievement surely took about a week to because even if the start and reminded me what dream of reach a solid form. But in the end points were clearly defined mine I had rendered forgotten. end, I had a clear-cut outline to in my head, I had never thought And, with that realization set-follow. I now had a much better much about the narration, I had tled in my head, I didn't even idea about what I had to write, when and where.

There were wide-ranging departure from the world broke was more of my thing. A book, Firstly, over the year-long me and then built me afresh, course I had read and written a and how my bonding with Maa

purpose of me writing this I succumbed and went on to evolved into an effortless, book. Who I was writing this take another break. for, and what I wanted the Thankfully, this one lasted just without which my days hardly reader to take away from it. two months. Also, by that time had any meaning. I would And I concluded that I didn't I had written about half of the always be thinking want it to end up being just book. Or maybe about 40 per- things I could add to the book, another book on the shelf of cent. But, this time when I took or things I could remove, or someone, gathering dust after a up with writing my book again, aspects I could re-write or single read. I wanted it to I had a big factor playing in my improve. become a book which would favour. My college was off for Even when talking to my best someday bring a set of parents summers, and my internship friends namely Shreya, Yukti and their children closer. I demanded just about 8 hours of and Shivani, I would talk only wanted it to become a book rigorous work each day. Thus, I about the following two major which would transform rela- had begun to find plenty of things. Number one, how much tionships that parents and chil- time at my hands to dedicate to I missed them. Number two, dren share with each other.

my head, I started typing one and more every single day. and every hour of my days had more time. And, this time, I Five hours at the least. And, as begun to witness some bits of 200-500 words to the draft never even realized when those ally, it happened. head was simple- no matter 8-9 hours of a daily ritual. some bit of my book every day. bit every day did. And, my wither away. More and more of mode. hectic schedule at college cou- any activity I had ever pursued,

evolved as a result. My book pled with sundry other activi- anything in my living of over was going to weave through it ties that I was pursuing, writ- 23 years. Writing this book had ing with a fresh mind each day become a drug which I had I also thought a lot about the was getting tougher too. Thus, gotten addicted to. It had

my book.

went on a non-stop streak for I was getting closer to my me being engaged into comalmost 2 months. I added intended end of the book, I pleting my book. And eventu-

chapter after chapter till late in of my father. However small those bits be, it the night. And despite sleeping It was exact 11:37 pm when I didn't matter. But writing some late, I would wake up early had hit the "Save" button on strategy worked. In those two hour or two before I would up from the chair I was seated months, I wrote a really good have to get ready and leave for on since 7 P.M. I walked amount. I had formed a solid work. Even when at work, I around a bit, smiling, with the base to further build my story would be busy appending more image of my beloved father upon. But, when you are words and paragraphs to the reflecting in my head. And, engaged in the same activity book every time I would get a with those positive vibes gushfor long, you often tend to lose break. Basically, my book had ing through my veins and eleyour zeal for it day by day. The become the very definition of vating me to a state of utopic excitement and energy often my days. I was on a mission peace and joy, I at last slept on

for a break. The same hap- never shown this scale of pas- of accomplishment that I had pened to me. And, with the sion and religiosity towards never been exposed to before.

smooth and soulful activity

how much I had progressed With all that clearly settled in Ergo, now, I would write more with my book. Every aspect

each day. The point I had in my 4-5 hours of writing grew to Co-incidentally, it was Father's Day (17 June 2018) when I had how less time I might be able I would get to writing immedi- finally completed writing the to make out of college curricu- ately after returning from first draft of the book that I had lum each day, I had to write work. I would keep typing been writing in remembrance

each day and write again for an MS Word on my laptop. I stood the cold floor of our living you begins to ask for a change. Trust me, hitherto then I had room, experiencing a feeling

achieved something signifi- throughout my life. cant, as a son. A son, whose Maa never says it to my face content that my book could do proud father could cry happy that she is proud of me because well without. And, also, I had tears which would rain on me she knows her son is a nincom- added another 10,000 words of from the heavens above. I poop who would immediately fresh content that aforemenknow it sounds metaphorical. bloat up in joy and begin to tioned first readers felt the But trust me, that was the feel- think too much of himself. book needed to support and ing. The feeling which said, I And, she is very right to think further strengthen the storyhad made something good out that way. She knows me well. line. of myself.

It was surreal.

next morning. Over the days expression and joys on her was ready. Ready to share my that followed, I then recited glistening face said it all. Thus, father and my tale with the every word of the book to her. I bloated up :P Every word that I had written That said, once I was done matter of a little over a few tears and emotions. During that editing the book. Thanks to lished on the Kindle Store on course, we both cried at times Shivani, were instances when we fought who became my book's first months down the line. son. There was so much about tive form it is in today. me that she didn't know before Trust me when I say it, com- Signing off, those recitations. Thus, reading draft was like on that Father's Niranjan. my book to her was an amazing Day, the post edited final draft Or, as people at ABV-IIITM journey of its own which I am version of the same was a know me, Jayant Mundhra:) !

That day, I felt like I had going to remember and cherish humongous achievement. I had

But, when I had been reading And, that is how, slowly,

removed over 15,000 words of

my book to her, she didn't have silently, crawling and running, I then apprised Maa about it the to say that she was proud. The there came the moment when I world out there. Now, it's just a over a span of more than a year reading the book to Maa and days from this writing as on and a half, investing an unpar- making some minor changes, I 21st October 2018 my debut alleled scale of time, energy, spent another month and a half, book will be out there pub-Shreya, Yukti & Amazon, which would later be and laughed at others. There Sahana, my amazing chums followed by paperbacks a few

a little too. She wanted some readers and primary editors. That was the journey of my portions gone while I was not They gave me the first review first book that is titled, ready to make any changes at and feedback on my work "Redemption of a Son", or as a all. But, in the end, she was which helped me further trans- Telugu movie's Hindi dubbed really happy and proud of her form the book into the superla- title would go, "Ek Bete Ka Pashchatyaap".

and got to learn only during pared to what my book's first Shilanjan-The son of Shila and

Did you know?

- 'In Search of Lost Time' by Marcel Proust is the longest novel which exists. This masterpiece made its mark in Guinness Book of World Records and could quite easily double up as a mightily effective doorstop with 13 volumes clocking up nearly 1.3 million words.
- The most expensive printed book in the world is the 1640 Bay Psalm book from America. It sold in November 2013 for USD 14.2 million.



HISHAR V8.0 . CAREER MANTRA



Level zero to dream drop distance



new town Gwalior for around with my luggage packed the intermediate. day before in a very hus-

for the academic registration friendly empire. fingers. Every person I con- tail-glowed or belly drummed

Nobody has the faintest idea fronted on the registration day to try and get into the club. Me what follows death. It is sinu- had this 'Serene Grace' ability being neutral hits should do the ous. Let's see. What time was on a comparison scale with play. Vindictive as ever, I it? Ah, yes. It was around me, flinching me with words. might have attended most of 03:00. Satan's hour. Unsure of Odds in my favor are none. +2 these inductions and club where I slipped to, all I could school life packed a lot a of events. There was another club do was to nurture my confu- fear in me, I derived that in a which used to conduct more of sion and self-hatred while lis- minute or less. Walking a lot technical events less being oratening to Heathens. Waiting for on the registration day was a tory ones. Doom desiring, this vigorous exercise compared to other club I'm talking about, 20 hours, just me and my dad sitting as a Slowpoke in my piloted an oratory event where tle-bustle manner, the outcome time to go to my new home i.e. Among people giving their one would least want is the my hostel. My instincts never conclusions at the end of each train being delayed for another accepted the people who were session, there was this Potter-Awaiting me was the symmet- contemporary guests with joy. silence as she ingeniously gave ric admin block of the institute. The voice resonated with my her denouement. It took a few Or so I thought. Glancing soul, I managed enough to moments to process what I had towards the right, I found it stammer. All I could do to just witnessed. asymmetrical. "Symmetry is reinforce my determination lower jaw was accumulating the key. Everything in this was to say hello and ask the dust on the floor. I had a knowworld should be aesthetically other person's name. I closed ing look on my face, a mix of pleasing." That's the principle my room and an awkward appreciation and disappoint-I lived upon. Demise was what silence followed. I felt slightly ment. It was as if you were all asymmetric things I could screwed up. But that was only being led into a circus trick. see ahead of myself. Bell rings the start of my oddly big But soon, I came to realize that

seminar hall. This random guy attended with a slight hatred don't allow themselves to mold approaching me tells his name and slight excitement. "What's into the surroundings, I felt its and in return asks mine. I'm with the club inductions?", I high time to go all-out pumspiraling towards my doom as always thought. Being alone melling. we speak, losing my cool was multiplies its supremacy over So, I drew my katana and startall I could remember, for a guy being with a group of people ed to carve out my empire and with his confidence being in doing random chores and orga- sliced every fear in one flick of absolute gutter. My dad came nizing meets for another my wrist. That being said, there to my rescue realizing that me clump of sapiens. Not being are incidents where people being an introvert was not inducted into the club for any have hated me. Interacting with question. reason is acceptable. This people had to be my prime Ashamed of my cowardice, I nasty rumor that most people objective. That I did, with not caught my water bottle before who applied are inducted, much hesitation. Even that had it slipped through my shivering bugged me. Although, I never

Registration people have to tap their chairs executed, it was finally the before taking turns to speak. welcoming their last- minute head. The hall was in outright she was an introvert, a notch and everyone follows to the Few days followed, classes above me. Although introverts

its own limitations. With not hy friend? I realized that by in terms of getting introduced knowing to care about words, I being in a group of people who to new people. There's still it has been a year trying to sur- ly got to know many other want Jirachi to exist so that it'd who can act as your family, gutter introvert then why not give out 100% become

might have hurt people's emo- I declined as my first friends. room for improvement, some tions. Apologies followed and Relations enhanced and I final-serious ones indeed. I really vive as a bohemian in the people. Within a year I started bring at least one of my wishes campus. But just being your- to spin things in a way, I've true. This time though, I'll self could bring out friends had never tried before. The bring a change and go beyond an outgoing and just make yourself a wort- having his own limitations, but

started to the boundaries.

guy Amor gignit amorem! 🧍

You opened your eyes

You opened your eyes and smiled awhile, You'd friends to meet and cartoon meetings to keep. You smiled meek over the superpowers you seeked, You counted the days,

You were gonna be seven that week. You opened your eyes with hangover awhile, You'd gangs to meet and a social image to keep. You bullied meek over the biceps you seeked, The world should know,

You were gonna be seventeen that week. You opened your eyes skipping breakfast awhile, You'd colleagues to meet and corporate meetings to keep. You smiled meek over the promotion you seeked, It slipped your mind,

You were gonna be twenty-seven that week. You opened your eyes it was night awhile, You'd expectations to meet and presents to keep. You smiled meek over the gifts he seeked,

Your son was gonna be seven that week. You opened your eyes and life's in turmoil, You'd bills to meet and health to keep.

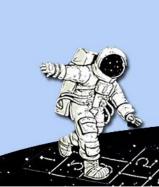
How could you forget?

You sighed meek over the peace you seeked, You checked your balance,

Your son was gonna be seventeen that week. You opened your eyes and sighed awhile, Expectations everyone's but yours were met, You couldn't find the drawing you'd safely kept. You cried meek over the superpowers you'd once seeked,

You didn't really care, You were gonna be fifty-seven that week.

Abhishek Pratap Singh IMG-2017



STARTUP SUCCESS



Founders - 1. Arpita Kapoor 2. Mohit Rangaraju

Field - Game Development

Product - High Quality mobile games across casual and mid core categories for millions of Indians.

Top games - Chhota Bheem Himalayan Game, JetPack Joyride Indian Edition. Launched "Puppet Punch" - an arcade fighter that reflects the history of puppetry. The game got featured by Apple and clocked 400,000 downloads in 3 weeks of launch.



Mech Mocha



2016

4 MirrorTech **Innovatives** Pvt. Ltd.

Founders - 1. Ankur Jaiswal: CEO, Co-Founder 2. Pushkar Bhagwat: CTO, Co-Founder

Field - IoT (Internet of Things)

Product - Aura FMS with 25+ sensors ranging from air quality check to connected air fresheners, purifiers.

Achievements - Winner of the Eximius Entrepreneurship Summit organized by NARCEL, IIM Bangalore. Customers: Bhopal Airport, Indore Airport, ABV-IIITM etc.



Founders - 1. Dr. Pankaj Srivastava 2. Prajval Gupta 3. Rohit Singhal

Field - Automation

Product - Auto dimmer devices which reduce the intensity of light according to the surroundings.

Achievements - The product got its patent. It won the Startup Battle held at IIT BHU. The product stood first in the B-plan competition organised by IIIT Allahabad Incubation Center.

2017

Shaastra Automation



Grenovators Motor Work Pvt. Ltd.

Founders - 1. Suyash Singh 2. Purnendu Sinha

3. Sandeep Kumar Das

Field - Automobile industry

Product - Three-wheeler electric vehicles; electric retrofitment kit for conventional vehicles and Electric Roads systems for three wheelers.

Achievements - Youngest start-up award by ELECRAMA; three collaborations with two different countries-UK and Sweden.





Hakuna matata



How could a Swahili quote yet change somebody's ing that, what truly matters reasoning about it. stantly tend to discover rela- However, tions from skeptical posts recollections ine a scenario in which some- your years later.

wellbeing, "genuine" compan- before out their life and when some- wrong?" manages to it isn't that essential. Time and enough to take a leap of faith philosophy!! \hat{k} again a minor anonymous con- Play that game, do that move, fession

the you folks genuinely what not you'll see find everything conceivable

The title signifies "no stresses". could take away your sleep, a limb... before faltering, THINK! Imagine a scenario of from a toon motion picture understanding that it doesn't losing the match, missing a life? influence your life at all and dance step or she saying "No". Indeed, "hakuna matata" is a can't scratch any of the vital If you look closely nothing lifestyle, it implies offering things, later on, guarantees happens. Dread of losing indisignificance to just those things you that it isn't justified viduals leaves us. And If by which matter, and understand- regardless of the sleep you lost any chance they genuinely cared for you, they would definally figures out how to stay. What others think about your pendably remain. Each fear is In the socially online existenc- humiliating minute in front of essentially harmless to everyes of everybody, individuals an audience, isn't critical 10 thing that matters in the future. whine of the absence of simple years later. With what name So just by saying hakuna lives, absence of focus, are others bother you currently matata and believing it, you subjected to stress and con- isn't relevant 10 years later. can reduce most of the fears cheerful you have in life. It sorts out make what's important, tells you about existence. Individuals presently will be recalled later, which problems to pay heed to, overlook what's really imperate the things you learn, the shows you how simple truly tive. They tend to think over experiences you gain, will be life is and which comment to what others would think. Imag- treasured later, how you treat pay attention to. Your so-called and yourself sad, eventless, complicated life thing turns out badly for sure presently will be essential would get some ray of hope. on the off chance that he/she later. That is what Hakuna Even the confusion about the bombs. However rather they Matata is all about! Numbness reviews I would get writing ought to ask themselves how is euphoria and ignorance is this article was sorted as can it influence their future bliss. Just when you realize hakuna matata, "Even if they to are bad, so what? 10 years later Everybody's parents, work, overlook, keeping in mind that stays the same. You will be accomplishing happier, have true friends, ions, core values etc. are the something hazardous you have proud parents, good health and most important things through- to ask yourself "what could go a safe future. It'll make you that live each day like it's your last, of i.e. by being the best version of something which won't influ-turning out badly won't matter yourself. Hakuna Matata, it ence any of these 10 years later, 10 years later! Furthermore, means no worries for the rest of he/she ought to understand that this should motivate you your days. Its a problem free

> Hakuna Matata, what a wonderful phrase. Hakuna Matata, ain't no passing craze. It means no worries for the rest of your days. It's our problem-free philosophy. Hakuna Matata.

> > - (Courtesy) The Lion King

ABHISHAR V8.0 . LIFESTYLE



Anyone could become a millionaire by 30



Shooting big has always been Money is a tangible asset eighth wonder of the world my cup of tea. And that is why, which provides power. The which created many billionmy habits, I am going to talk you survive and most impor- the past like, Warren Buffet. by the age of 30.

a taboo topic for the poor as lionaire by 30: The society is so negative for yourself If some brave people do that, from the majority.

(Intelligent Quotient), (Spiritual Quotient), people manager Qualls, Juliath Brindak and scientist" Sean Berlin.

Why millionaire?

are having one common prob- money money. This happens with the ABHISHAR V7.0. The reason sion in our assets. behind this is that people are Don't eat the children of Never hesitate to travel extra not aware of how money your saving underestimating knowing about these things.

in this article, by reconciling basic function of it is to make aires as well as millionaires in about how to be a millionaire tantly, the world revolves ar- Be self-employed round money.

thinking. Society doesn't like ities to the whole world. In all else. people who think different these activities and distraction, Take responsibility we forget to pay ourself.

It should not be taboo since it is For becoming rich, keep at sponsibility. They don't blame possible and just through a pos- least 10% of your income with anyone else for their failure itive thought, attitude and yourself and make sure that like 'Government policy is not money management, it can be your saving works as an asset good', 'we have enemies', etc. achieved. With an average IQ and provides future cash flow Millionaires always focus on EQ as a revenue.

(Emotional Quotient) and SQ Give money to a professional best action to tackle the exist-

coming a millionaire by 30, and science and unfortunately, believe in the "law of Karma". some of them being Ashely everyone is not an artist or a Sustain through pain

Most of the people around us to those who are experts in the that you are learning extra, management lem of not having enough Only an expert can increase in pain provides you an edge. majority of the people as I had inflation. Otherwise, we can how you manage stress and talked in the last article of have a bad experience of ero- pain and how you perform in

power of compounding or not enjoy compounded interest. You will be fast and will ac-Compounded interest is called

By being self-employed, you Becoming rich and earning Here are 10 steps that can have the power to enhance your millions by 30 has always been guarantee to make you a mil- own salary but when you work for someone else then you prowell as for the middle class. Part of what you earn is kept vide the right to control you and hence, your future. In that about thinking big that people You give money to everyone condition, however hard you don't even dare to talk about it. like when you go to McDon- work, you will not be paid acald's, you pay for a burger. You cording to your capacity. Milthey are targeted adversely for buy cloth, car, cell phone, etc. lionaires always work for their independent and big and you pay for all these activ- themselves, not for anyone

Millionaires always take rewhat they have and take the ing problem, without bothering have achieved their goal of be- "Managing money is an art much about the outcome. They

If you are going through pain, Hard earned money should it means that you are learning always be given for managing something new. Pain assures field. more than others and learning the value of money by beating Therefore, success depends on an adverse situation.

miles because in those extra the Never touch your saving to miles you will not get traffic.

complish your goal before your favor of the trustable person. revenue for future. Be known competitor.

Be honest

ness set up, people always hold ourselves within the limits erate revenue ed. No one wants a liar and a fore you will have to study mil- est that won't generate money partner.

Your honesty opens up a lot of change your mindset and atti- revenue. Rich people use boropportunities in the business as tude from that of poor and mid-rowed money to leverage inwell as in the normal environ- dle-class people. ment. Always remember one The best way to get a million- Poor people use borrowed thing, your success depends on aire mentor is to read books money to buy things that make your surroundings and other from your favorite million- rich people richer. one has the power to take a de- tremely generous with their life rigorously cision regarding that. So your knowledge and their resources. 1. Pay yourself first at least good image or image of being a Don't show off - show up easy since our human mind is a luxury like car or watch from friends and relatives avoids complexity and accepts them. They buy and believe in works for you. simplicity and the result of this assets which can generate is that the decision goes in revenu work ethic, not the trin-

Get a millionaire mentor

Most of us were brought up in trinkets that you buy. want a person who can be trust- and ideas of that group. There- Never borrow money on intercheater to become a business lionaires and duplicate what in future. Only borrow money they did so that it helps to since that can generate future

for your work ethic, not the

Always be honest. In a busi- middle class households. We Avoid debt, that does not gen-

vestments and grow cash flow.

people's decisions, since what- aires, the ones who fascinate In the end, always remember ever it is that you want, some- you. Most rich people are ex- these rules and apply to your

- 10% of your income
- trustable person makes the Millionaires never buy liabili- 2. Seek advice from an expert work of the decision maker ties to show off. They only buy for money management, not
- designed in such a way that it unless and until that mean to 3. Make sure that your money

Did you know?

- 1. The average millionaire goes bankrupt at least 3.5 times.
- 2. Only 20% of millionaires are retirees. Around 80% still go to work.
- 3. A 2010 study argues that millionaires (those in the top 1% of earners) pay approximately 40% of all taxes in the United States.
- 4. Contrary to common belief, many millionaires do not live in mansions or in highly prestigious neighborhoods.
- 5. On average, millionaires are 61 years old with \$3.05 million in assets.
- 6. Only 20% of millionaires have inherited their wealth. 80% have made it on their own and are first generation millionaires. And the fortune they have will disappear by the second or third generation.
- 7. The cars millionaires love are Ford, Cadillac, and Lincoln. Most millionaires avoid expensive cars because they give little returns and depreciate in value quickly.

Rishabh Jain **IPG-2015**



Why you will fail to be a "GREAT" developer?



It's pretty easy to be just a or Udacity course, unless you Another important thing is that "good" developer. But being develop a project. heard either one of these, huge at the end for placements" or a real scalable project. thing, worth it".

your thinking functional, mod- out some of your own ideas, you have in your mind etc. ular and algorithmic. No doubt, jot you become intelligent. But it "duck-duck-go" it till you find at the very root, how the teaches you nothing about the the way of implementing system works. problem-solving in the real them. If there is something no NSFW bytes do not stream to world. On the other hand, just one is building and you think it your mother's phone though learning the syntax of every can be done, DO IT. A perfect you are connected through the new technology and calling solution does not exist, you same router? How system calls certain APIs, doesn't make you just have to pursue perfection work? What really happens a great developer.

For new developers the culture you walk through the journey, guage? is intimidating. With all these the better you can observe the Another common thing we all Cloud Computing, Hacking, around it. advances in each of them, one FOSS Boston or to take up a Coursera peace with that.

difference "there is a lot of scope in devel-making a website that runs on technically-educated

> them down

tion is how to balance all this. episode of "13 Reasons Why". copy, You have to digest the fact that You have to be passionate Steal. you cannot be good at every- towards the process of solving Seek advice from people who

you should be able to break "great" is not a piece of cake. Musicians practice the same your own code. Think of the So, this one is a 4 am contem- chords for years, just to get various scenarios where your plation, hope it's worth your expertise over a single song. code might get into trouble. time to read it. So, here I begin. And yet, you believe you can How well-versed hackers will As a student of ABV-IIITM, learn web development in a see it, how a non-technical you would definitely have couple of weeks. There is a smart person will perceive it, between how the uncle who is barely opment, read Geeks for Geeks your own system and building observe it. For scalability, run your code on various machines, "Competitive coding is every- Real projects are the ones what will happen if the internet development is not which have never been done goes down, what exceptions to before. No matter how small raise, will it try to respond later I disagree with both of them. or big they are. You have to when the internet comes up Competitive coding makes keep your eyes open and figure again, what security options do

> and As a developer, you must know and not achieve it. The more when you call "printf" in C lan-

buzzwords- AI, BlockChain, goal and the smaller obstacles do is to "Stack Overflow" an error, copy paste the solution Distributed Systems and rapid As a newbie, dig into the and it works. Wooh. And we all culture. Remember forget about it. It doesn't simply doesn't have the time to LINUX is being created by increase your skills. Try to know everything. The software thousands of developers who modify pieces of code in the industry is constantly evolving decide to code in their free answer and see how differently every second, the biggest ques- time and not to watch another things go. Good Programmers Great **Programmers**

thing simultaneously. As things a problem in general. Make have expertise in the field. come, you have to learn them. mistakes every day. Your first Compare their approach with There is no point in binge code, like the first draft of a yours. Is their code more scalwatching the videos of New novel, simply sucks. Make able? Does it handle more able, full of bugs and will thing cool every time. company.

perseverance, practice proactiveness. The last word CRAPPY CODE. io. This vision comes with you expect from others. from my side:

important. You don't need to user-centered product. mind sharp. It helps in modustore data.

- errors? Does it have a good 2. Hackathon is a great way to site scaled to a million users writing style? Learn from build something fast. They are load 5ms faster.
- millions of dollars to your The better the code is written, code. lesser time is spent in such 9. Slamming the keyboard is and repeat, NEVER
- tells us how to see the problem 4. You are not going to work glorified typist. in a bigger picture, into a graph alone on a project, your code 10. Development is an art, not
- experience. Here are some tips 5. Be a little entrepreneurial in of uniqueness and style into the your thoughts, see what fea- code. Competitive coding is tures you can add to make a Remember, the best time to
 - write code that makes a web-

- them, don't follow them blind- not the best solution, but they 8. Paper-pen is highly underly. Don't write crappy code create a minimum viable prod- rated. Always draw the soluever, no matter what the dead- uct. Attend a lot of them, break tion first before coding. People line is. It will be unmaintain- the barriers and create some- who know many stacks and do not have the problem-solving backstab badly at the end. If 3. Many programmers will skills are divas. DON'T BE A this happens in production, it agree that most of their time is DIVA, BE A GENTLEMAN. can result in a potential loss of spent in debugging and testing. Write the solution first, then
- The 3 P's to development are works. That's why I said and I not the key, it hardly makes a WRITE difference. The real work is done in the head. Don't be a
- that is detailed enough to must be readable to other team- a science. If it had been a scihandle every possible scenar- mates as well. Write a code that ence, every code would have been similar. Add your own bit

plant a tree was a few years be the top one to be a great 6. Expertise is overrated. Every ago. The second best time is developer, but it makes your developer who has created a now. And yet, like me, you solution was unskilled for that know everything but you will larity and the general knack of problem. You learn as you not persevere to be a "great" optimizing the problem and grow, keep it short and simple. developer. Because it's pretty using proper data structures to 7. The biggest happiness is to easy to be just a "good" one. .

> दीप शाह BCS-2018

सरसराहट

ये मायावी संसार ने जब श्री कृष्ण को खोया तब परम मित्र अर्जुन भी रोया इस कहानी का प्रारंभ तो तब से हुआ जब एकलव्य ने गुरुदक्षिणा में अंगूठा कुरबान कर दिया। गुरू की सेवा करना शिष्य का फर्ज़ है विद्या के पथ पर आंधी सहज है अगर ना कर पाए गुरू का आदर तो तुम्हारी जीवन नैया तुफानी सागर का शिकार है। शिष्य किरण तो गुरू किरणपुंज है हमारे पुराणों में "गुरू देवो भवः" की गूंज है अगर ना हो डूबता हुआ सूरज गगन में तो खिलता हुआ चांद भी सितारा है। ना है मजहब के बेडिया ना धन की उम्मीद है बस कुछ कर जाने की ज़िद है

सीखने के लिए सुबह क्या शाम क्या करोड़ों महान दिलों का यहीं तो पैगाम है। दिलों में जज्बा हिमालय की चोटी पर है भीतर आग मात्र विद्या की है विद्यार्थी मान लो जलता दिया तो जलता दिया आंधी का डर नहीं है। आज शिक्षक दिन के पावन अवसर है आज तो हरेक हिन्दुस्तानी की एक ही पुकार है ना मिला गुरू का आशिष तो प्री जिंदगी सिर्फ सुखे पत्तों की सरसराहट

> सरसराहट है. . . सरसराहट है।

Shubhanker Srivastava **IPG-2016**



Failure: A different perception

We all have days when every- look at the brighter side of the would they be who they are thing seems as difficult as a darker things - use failure to right now? You know the bird's first flight. Filled with motivate ourselves. expectations we all march upon I'm sure you failed the first Each time we lose, we fail, it a road with the hope that it will lead us to success one day. But sometimes what matters more is not the destination but the journey. And the journey to success is seldom an easy one. We all come across difficult situations, different circumstances, some ups and downs. And yes, at some point in life we all face failure. We all fail. maybe many times.

"Expectations overflow, I want to say so much, And yet, I choose to stay numb. I shot for the stars, But my dreams gave me scars. My wounds are not on my skin, But somewhere deep within. I want to shout and scream, But silence is all that I could afford."

Giving up looks like the easiest a temporary job. Walt's first yourself that yes you can do it. way available and trying and animation studio went bank- And then, when nothing works, giving it another shot looks like rupt. He went on to co-found I remember this dialogue from the most difficult task. So, what to do next? Is that the which had \$50.1 billion in ki tarah humari zindagi me bhi end? Mr. /Ms. Future Superstar, 2017 revenue. Infact, the end me sab theek ho hi jata hai; is this the end of your journey? Leaning Tower of Pisa, wasn't Happy endings! Aur agar theek No. At this stage of our jour- supposed to be leaning, but if na ho to, wo end nahi hai mere ney, we all look around for it were straight it probably dosto; picture abhi baaki hai some motivation. And like they wouldn't be such a popular mere dost!" So, pull up your say, every coin has two sides. tourist attraction. What we have always been These are some success stories there is an amazing journey looking at is the dark side of of people who have faced fail- waiting ahead for you. Fly, run, failure. But today let's change ure for a greater portion of walk or crawl but don't stop.

future.

computer company and the Learn from your failures. The Walt Disney Company, a bollywood hit, "Humari filmo

our perception a little bit and their life. Had they given up,

answer to that.

time you tried to ride a bike hurts us a lot. But our failure you had a bad fall. You may today should motivate us for have become scared of the tomorrow's success. Just thinkpain and embarrassment, never ing about all the "what ifs" of wanted to touch another bicy- what would happen if we fail cle again. But then you tried should give enough motivation again and again and fell again. to do well in the next challenge Battered and bruised you kept that life has set. Learning from trying. How you think makes our own failures makes us all the difference. So why is mentally stronger and better failure the best thing? Why prepared for what life holds for not once, not twice, but in fact you should fail is simple. Fail us in the future. Fail, and because it is beneficial to your become so possessed with not failing again that you use it as Steve Jobs was fired from the fuel to drive you forward every company he founded - Apple. single day. Take yourself to an-He also failed with NeXT other level of determination.

Lisa computer. When Jobs re- And as the lyrics of a popular turned to Apple, he led the song says, "Everything that business to become the most kills me makes me feel alive. profitable company in the US. Everything that drowns me No one wanted to hire Walt makes me wanna fly." And then Disney as an artist. In fact, he eventually each failure gives couldn't get hired elsewhere you the boost, the kick needed either. So, his brother got him to prove it to no one but to socks, fasten your seat belts,

Your every small step takes has happened to you and fight Wish you a very successful and you closer to your destination. against all the odds with blissful journey ahead. A Just think of all the good that double energy and motivation.

सफलता

सफलता की खोज में,
ख्याति की ओज में,
राह राह भटकता हूँ,
पर यह नहीं समझता हूँ
सफलता विजय है, विराम नहीं,
और इसको अर्जित करना
इतना भी आसान नहीं।

ढूँढते हैं लोग इसे शरीर की चाल में सुंदर काया में, मनमोहक बाल में, कपड़ों की बनावट में, साज सजावट में, धन वैभव के रौब में, चापलूसों की फ़ौज में, शर्ट की सिलाई में, पैन्ट की ऊँचाई में, अपनी झूठी शान में, दूजों के अपमान में, शरीर के आकार में, और उसके चतुर्दिक प्रचार में, दिन ब दिन पहर दर पहर, सुबह शाम, यूँ इसी कदर, सबको चोट पहुँचाते हैं, और खुद को सफल बतलाते हैं।

पर सफलता अगोचर है, अविरल नहीं, इसको प्राप्त करना इतना भी सरल नहीं।

सफलता व्याकुलता का परिणाम है, परिश्रम का दूजा नाम है, मानस के भीतर की चेतना है, जिसे एक समृद्ध संसार देखना है।

निस्वार्थ कार्य जो करता है, और अपने गंतव्य पथ से, जो कभी भी नहीं विचरता है।

वो सौम्य आचरण वाला मन, सूरत में शायद हो कुछ कम, कपड़ों का उसमें न हो ढंग, और शरीर नहीं रहता हो संग।

पर कामयाबी की चोटी पर, वो ही अकेला चढ़ता है, जिस पर ऐसे अपवादों का क्षणिक फर्क न पड़ता है।

> समाज में सम्मान के लिए, अपने कर्मों पर अभिमान के लिए, उन व्यर्थ विकर्षित धाराओं से जो सतह चीरकर निकलता है। वो ही सफलता चखता है वो ही सफलता चखता है।

















MEMORIES

We meet a lot of people in our lives, but only some manage to remain in our memories forever.

Late Abhinav Saxena and Late Tushar Sharma were among the most diligent members of AASF. More than their utmost dedication and hard-working attitude, it was their friendly demeanor that made them special. It has been eight years since their unfortunate demise but they are still alive

in our memories.

Lifescape



Abhijeet Chauhan

There's always a door to free your soul. Only you are the one who can open it.



Sachin Acharya The Upper Shivalaya Temple Badami, Karnataka.



Pradyumn Pottapatri

People want to fly like the birds. As they have the fear of getting captured.



Sakshi Chahal

Look at the stars, look how they shine for you.



Anshita Sharma

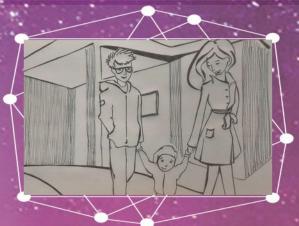
Her moves are limitless, her powers are intimidating, her army is strong. Oh well, she is a Queen. Check-n-mate!



Prajwal Singh Midst salvation.

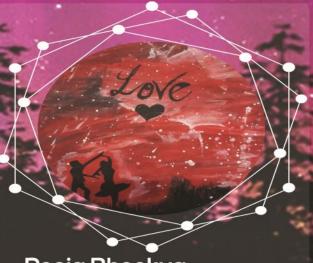


Piyush Chetwani It's not what you look at that matters, it's what you see.



Jayant Shilanjan Mundhra

Contemplating what his future life would be like with his supposed beloved one, nothing better came out of him than the thought of the couple growing from 2 to 3 <3.



Pooja Bhookya Love is like a wind, you can't see it but you can feel it.

MANGALYAAN

On 5th November 2013, Mangalyaan was launched by ISRO from Satish Dhawan Space Centre (Sriharikota Range SHAR), using a Polar Satellite Launch Vehicle (PSLV) rocket.



It was successfully inserted in Mars
Orbit on 24th
September 2014.
It made global history as India became the first country to successfully reach the Martian orbit in its

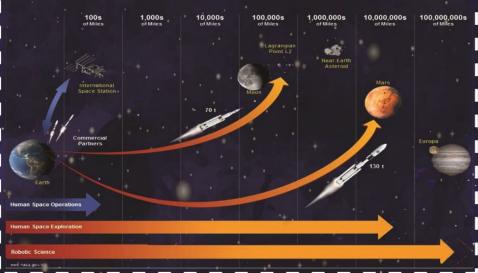


With a cost of \$74 million, Mangalyaan is the least expensive Mars Mission to date. The per km expense of the mangalyaan is even lesser than that of an auto rickshaw ride.



INTO THE COSMOS







ASPHYXIATION

In space, it would take only 15 seconds to use entire oxygen present in your blood



© 15 SECONDS OF OXYGEN

.

EVACUATED

). •

Immediate loss of body control and bowels evacuates immediately.

BOWEL CONTRO

BOILING BLOOD

Boiling point drops under low pressure thus all the liquids inside the body starts boiling.



HEART ATTAC

*

Boiling blood forms bubbles. Any bubble, if reaches the heart causes heart attack

BLOATING

The boiling blood causes the body to swell up and become really puffy.



SKIN

250° F

SUNBURN

If you end up facing the sun then you will experience a temperature of 250 degrees farenheit.

CELL MUTATION

You'll be bombarded with radiations from all around like UV rays, gamma rays, etc.



RADIATION

GAMMA RAYS
UV LIGHTS
X-RAYS

*****-440° F

FREEZING

If you are not facing the sun then you will experience a temperature of -440° F:

DID YOU KNOW?

The Gran Telescopio
Canarias is by far the
largest telescope on earth
and measures 34 feet (or 1
409 inches) across!



A story no one knows



doctors clarified that there his Nana was a highly spiritu- Ashish was shocked. He just were no medical issues related to both of them, it became more complex to figure out what they should do now. They moved to temples, did prayers, made vows to gods and did Nana was there, then he would a patient of diabetes, his probwhatever their trustworthy relatives said. All seemed going in vain when finally their doctors announced that someone was knowledge. he happened to them. They into Ashish's life. Ashish was home. When he came and named him Ashish as they kind at his heart. He loved Ashish saw him for the first believed that it was to them.

family. He was overloaded to unbearable for anyone to keep his parents managed to keep and honest themselves, became a little easy for them to were doing.

Here one important relation to time would demand. mention is the unique bond between his Nana and him. never used to talk a lot to his Nana but it was quite apparent

academics and he was excel- he was groaning in pain. unmarred that very fine line lent there. So no complaints Initially Ashish used to talk to between pampering and spoil- for some 'minor' mistakes! him. After a few days it ing. Being highly disciplined And in addition to that, Ash- reduced to just sitting near him it ish's increasing interest in for a few minutes and one day Vedic explorations kind of he realized that for 3 to 4 days impart their prudent values in gave assurity to everyone that he was not even seeing him. Ashish as he was learning and he will never be missing major Deep down, Ashish was finding following whatever his parents opportunities to contribute to it difficult to see his idol this beautiful universe when shrinking and shedding tears in

when one day, after returning ing with emotions and helping Since Ashish was very shy. He from a very hectic schedule of classes, his mother told him that his Nana had been diagn-

The wait was increasing. They that they both used to be happy osed with stomach cancer in were trying every possible to see each other. Ashish had a advanced stage. Mummy was thing. Since regular visits to great respect for his Nana as crying, siblings were silent and ally grown personality and his sat near his mother and started wisdom always fascinated and thinking about Nana and his captivated Ashish. It didn't ever glowing aura. He tried to matter which kind of discus- imagine the anguished face of sion was going on, if Ashish's his nana but he couldn't. Being automatically become the epi- lems had already been severe. center of discussion because Later, he came to know that everyone respected him for his Nana wanted to be with his daughter in this wretched state, about to arrive. And eventually Now, let's dig a little deeper so he was brought to Ashish's helping others. Being an intro-time, he couldn't manage to "Ashish" (blessing) from God vert, he used to hesitate to make eye contact with him. approach someone initially. Days were passing, condition No need to tell how content and But his mother knew the fact was deteriorating, and doctors' grateful everyone was in the that at the end of the day, he declaration of very less hope was never saying anything bad had made everything standstill affection, attention, pampering for anyone. Most of the times, except Ashish, who was still and pure love by his parents. he skipped the chance of help- regularly attending his school They say that icing on the cake ing others but everyone in the and coaching classes from 7 was his smile that made it just family forgave him as every- a.m to 10 p.m. When he used to one thought that his primary come back at night, mostly themselves away from him. But task is to perform well in his Nana was silent and some days,

despair. The realization of Ashish was in 12th standard being a complete naive at deal-



inside. Months passed, now within and guilt was trying heart, at the end of day, it's both of them were very distant hard to explode his brain. It only your actions to heal them at the emotional and commu- took days for Ashish to gather that count. And the final realinication level. He was merely back himself but now he had zation was that his examinalooking and trying hard to few realizations unraveling in tions will end one day, his smile and helping Nana in his mind very clearly. He real- other future related worries having medicines and meals. ized that if this was the kind of will end one day but what will There were moments when emotional attachment he shows not end on any day was the mummy asked him the reason to a dying patient who was so regret that he didn't say a for not "properly" talking to close to him, what about better goodbye to his Nana. Nana, and he just said "let my strangers who might expect It's been around four years examinations get over then I help from him. He realized that since Ashish last saw him. shall spend my entire time with every morning he touched his Ashish is still waiting that him." Nana went back home Nana's feet out of respect but someday Nana will come to his once he

things got worse again. One have helped more. He realized him that he is really improving day Ashish got the news that that it doesn't matter how by every passing day. his Nana was no more.

Ashish was shattered, innume-

much you love, care or pray for

was killing Ashish rable questions started a war someone at the core of your

instead of that this simple mes- dreams and then he will ask was a bit stable. But there sage, "Nana, I love you" could him to forgive him and will tell

Who am I?

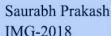
Who I am and What am I, This is the ground for my cry. And so far, for these years, I have grown, But to me, I am not known.

Nor from water, nor from earth, Neither from fire, is my birth. Secrets of life, I have never known, From Adam and Eve, I am not born.

I am not the name that I assume, I'm not in my stillness, nor in my move. Neither in happiness, nor in sorrow, I am, Neither clean, nor a filthy swamp.

Neither awake, nor in a sleeping doze, Not the purest among all these impure. I belong, neither to plants, nor to the abandoned trees, Not to the storm, nor to the scented breeze.

Who I am, I may never know, How far, how long, I may grow. All I know, I am the first, I am the last, None other, like me, I have ever known in my present or my past.







Shresth Verma **IPG-2015**



Should you be afraid of AI (yet)?

"Will the robots kill us all? other Will the skynet control the fate doesn't sound very intimidat- The third stage is Artificial of humanity or will it be the ing. But then, it is also driving Super Intelligence, and that is Red Queen? Maybe one day the machines will look down ing itself, defeating grandmas- dream than AGI. It is the stage upon us as fossils!!"

Oh, how the popular culture ing just like humans and that is tasks with performance that is has done its best to tarnish our overwhelming!! Thus it is nec-better than humans. Perhaps, view of Artificial Intelligence!! Films like Terminator, I Robot, progress of AI in well defined ence fiction movies depict. 2001: A Space Odyssey have presented a dark and dystopian scenario of what Robotics and Artificial Intelligence could ficial Narrow Intelligence(or are still clueless about when grow into. Naturally, makes us skeptical if it's actu- Intelligence ally the right direction humani- Super Intelligence (or Strong Now, some thoughts into the ty should promote its best AI). minds to work on. On top of it, Narrow AI is what humanity Narrow Intelligence and the some of the brilliant entrepre- has achieved so far. The AI is promising ways that give us neurs and visionaries of our really good at performing hope of achieving Artificial time such as Bill Gates, Elon single tasks such as classifying General Intelligence. The most Stephen Steve Wozniak, Neil deGrasse the game of Go or predicting for computer vision tasks is Tyson, and others have ex- stock prices. These systems Convolution Neural Networks pressed their fears about ethical concerns of development in fessionals with their work be- can be perfected using Recur-Artificial Intelligence. And yet, cause of their ability to draw rent Neural Network(RNN) the popularity of AI and ML is inference from a large number cells. Although backed by elegreater than ever. It has sort of of samples. It indeed is disrup- gant linear algebra and strong become a cult, with alchemy tive in narrow situations but optimization techniques, these like workflow where the new- overall, it fails to generalize can take us only as far as comers can easily build won- multiple domains, thus having narrow AI. But for general derful models in just a few a serious limitation of lack of tasks like decision making lines of code.

into.

AI is creating memes, coloring the AI is as good as humans in ing" our agent . mangas, writing rap lyrics, performing a wide variety of Reinforcement Learning is the singing Taylor Swift's songs, tasks. But then, we have been science of making optimal beautifying our selfies, con- saying that since decades.

crazy things. and Artificial to achieve it.

verting Fortnite to PUBG and How to actually achieve it? We

That will come back to this later.

cars, solving theorems, repair- even more vague and a distant ters, faking celebrities, walk- when the AI can perform all essary to critically analyze the this is the stage that most sciterms. Broadly speaking, there But, it is a bit far fetched to are three stages in the progress worry scenarios that might of Artificial Intelligence: Arti- happen at this stage when we that weak AI), Artificial General and how we are actually going

present state of Artificial Hawkings, between cats and dogs, playing common ingredient these days can also help in assisting pro- (CNN) while language tasks transferability to other disci- from raw observation of the So, back to the initial question? plines (that is why "narrow"). world around, these fail to Should we really be afraid? Artificial General Intelligence prove as a standalone tool. And This requires a dive into the is the AI that can reason and there comes in Reinforcement domains that AI has creeped understand the environment as Learning, the most promising a human would. This means paradigm for literally "teach-



decisions. Let us say you want learning is also characterized high computing power in our to train a dog to fetch a ball. by the fact that there is no su- hand used for training RL algo-It's a difficult task because ini- pervisor present that tells what rithms, there still remain nutially, the dog has no clue that is the best possible action and merous simple tasks that the we are interested in it fetching the agent itself has to deter- agents struggle to master such the ball. But over multiple iter- mine that. ations, the dog observes that This is the basic idea of rein- over obstacles, making bed, everytime it fetches the ball, forcement learning. Couple it multi agent scenarios etc.

best rewards. Reinforcement proficient in it. But despite the do. A

as picking blocks, jumping

you give a treat. And continu- with recent advances in deep This shows that AI is still far ing with this strategy, the dog learning and you get deep rein- from doing some tasks that will get "trained" to fetch it. forcement learning. Presently, humans do trivially on a day to Giving the treat motivates the most of the research work done day basis. We are just trying to dog to perform the task and we in this field is done on games. simulate human behavior by can even give more treat if the Why? Because games provide making agents take baby steps dog fetches faster. The dog will an excellent testbed for train- and that too for specific tasks. then learn that it's a good be- ing our agents (that is, an AI While we struggle to put our haviour to run fast and fetch it. game player). In practical best efforts at making Artificial Now, in this scenario, our dog sense, we can model any real General Intelligence a reality, is the agent, the ball and the world problem as a game, with strong AI is still a few decades playground is the environment a well defined environment, away. So, for now, enjoy lookand the treat is the reward. The some restricted observations, ing at those AI generated agent interacts with the envi- an AI agent, the allowed ac- memes and don't worry too ronment and gets rewards for tions and the rewards it get for much about machines taking performing certain actions. performing those actions. And over the world—at least not The task is thus to learn which if we have a game, we can try just yet. Maybe our curiosity are the actions that give the out our RL agents to become will kill us before the robots

The moon

Isn't the moon the dark? The devil or evil or demon, under false scrutiny, which latches itself onto us, luring us with its reflecting light; using the light of the good as a front to keep the rest in darkness, to get ahold of our pure emotions and juggle them.

Ojaswa Sharma IMT-2017

Maybe we are worshipping the ultimate evil as our prince of unilluminated atmosphere. Isn't it the dark lord?

The devil or evil or demon, that tampers us, camouflages itself and appear as a savior.

Dark times are tough. They mould our senses and our emotions. They makes us vulnerable to evil and its hideous motives.

Can we fight? How can we keep up? Dark times are supposed to be fought, remaining least dependent and strong, rather than tumbling through the thorns and not skipping them.

> We ain't gonna win, are we? No.

So, it is what it is, huh? Will fancy solaces always beguile us? Yes, they will, just like the moon ever will..





ग्वालियर स्मार्ट पर कैसे ??



अपनाने को उत्सुक खड़ा है। मोदी जी बढेगा इंडिया !!!" के प्रधानमंत्री बनते ही आई स्मार्ट सिटी क्या है स्मार्ट सिटी प्रोजेक्ट :— स्मार्ट ये किसी नए बसे शहर पर शायद परियोजना ने यह उत्सूकता और अधिक शहर के लिए अधिक से अधिक निवेश **बेहतर फिट हो लेकिन पुराने शहर** बढ़ा दी है। भारत जैसे विकासशील देश बुनियादी ढांचे पर अधिकाधिक खर्च, कैसे बनेंगे स्मार्ट ? में यह डिजिटल क्रान्ति क्या सच में महानगरीय योजना बनाने सार्थक हो पाएगी या फिर यह एक समितियों का दक्ष होना बेहद ज़रूरी है। पाना आसान काम तो बिल्कुल नहीं चुनावी वादा बन कर रह जाएगा, यह मोदी सरकार भारत के सौ शहरों आज भी बहुत बड़ा सवाल है। अब बात **को 'स्मार्ट' बनाना चाहती है**। लोगों हमारे ज़्यादातर पुराने शहर अनियोजित करते हैं ग्वालियर की। जितनी तेजी से में भी चाह है कि वे स्मार्ट शहरों के भारत विकसित होना चाहता है, शायद निवासी उतना ही उत्साह ग्वालियर के निवासियों परियोजना पर उनकी नज़र भी बनी हुई अनियोजित इलाकों में रहती है। इन में भी है। लेकिन क्या ग्वालियर इस है। प्रयत्न करते हैं।

क्या है डिजिटल इंडिया प्रोजेक्ट :- लोग तक इसका अलग-अलग जवाब डिजिटल इंडिया देश के नवनिर्वाचित देते हैं। ऐसा होना लाजुमी भी है क्योंकि प्रधानमंत्री माननीय नरेन्द्र मोदी द्वारा 'स्मार्टनेस' भी परिभाशा सभी के लिए एक अंतरराश्ट्रीय छवि तैयार करने के लायी गयी एक अत्यंत लाभकारी अलग होती है। तमाम कार्य प्रस्तावित किये गए हैं।

तक भुखमरी, गरीबी, बेरोजगारी और नहीं लगता है।

दिख रहे उत्साह और वर्तमान समय में सार्वजनिक यातायत सुलभ है। बिजली,

कहलाएं, लिहाजा इस

स्मार्ट सिटी योजना में विकसित हो लेकिन एक बड़ा सवाल सभी के सामने पायेगा ? क्या ग्वालियर डिजिटल हो है और वो ये है कि एक शहर आखिर कैसे कर पाएंगे। इससे आसान तो होगा पायेगा ? और अगर ऐसा होगा तो कैसे 'स्मार्ट' कब कहलाता है। सरकार से ? आइये इन प्रश्नों के उत्तर ढूंढने का लेकर इन योजनाओं पर काम करने वाली बहुराश्ट्रीय कंपनियों और आम

परियोजना है। इस योजना के अंतर्गत निर्माण और वास्तुकला पर जाने-माने देश के युवाओं का कौशल विकास, देश लेखक गौतम भाटिया के अनुसार स्मार्ट में विदेशी निवेश को बढ़ावा, देश के सिटी 21वीं सदी का शब्द लगता हे, शहरों का नवीनीकरण और ऐसे ही जिसे किसी स्मार्टफोन या स्मार्टहाउस की तर्ज पर सोचा गया हो। लेकिन देश में इस योजना को लेकर उत्साह भी किसी शहर को स्मार्ट कहना मेरे हिसाब है और संदेह भी कि यह योजना क्या से थोड़ा ज़्यादा हो जागए क्योंकि हर **क्या पूरे देश में 100 शहर चुनकर** कभी सार्थक रूप ले पायेगी अथवा यह शहर की अपनी संस्कृति होती है, केवल एक स्वप्न मात्र रह जायेगा ? कैरेक्टर होता है। हर शहर अपने आप अगर आम जनता कि राय ले तो कुछ का में काफ़ी जटिल होता है, इसलिए उसके कहना है कि इससे देश में सैकड़ों वर्शों लिए 'स्मार्ट सिटी' शब्द का प्रयोग सही यह सिर्फ सड़कों और मुलभूत सुविधाओं

अन्य कई समस्याएँ दूर हो जायेंगी। अगर आम आदमी कि बात करें 'स्मार्ट संरचना और लोगों के रहन—सहन में लेकिन कूछ का यह तक है कि इसे सिटी' शब्द सुनते ही सबसे पहले तस्वीर बढ़ी जटिलता है। शहर की एक बड़ी केवल चुनावी चाल मान लेना ही उत्तम आती है एक ऐसे शहर की जो काम आबादी पक्के मकानों में रहती है, जबकि होगा क्योंकि ऐसा वास्तविकता में संभव करता हो, जहां लोग साइकिल चला लगभग उतनी ही आबादी सड़कों और पाते हों, सडकों पर पैदल चलने की झुग्गी-झोपडियों में रहती है। सरकार अब कौन सही है कौन गलत, यह तो जगह हो, पार्क हो, यातायात सुलझा को ऐसे शहर बनाने चाहिए, जहां लोगों आने वाला समय ही बताएगा। लेकिन हुआ हो। सड़कें और इमारतें योजनाबद्ध डिजिटलीकरण के लिये आम आदमी में तरीके से बनी हों, शहरी और

आज दौर है डिजिटल इंडिया का। कम्प्यूटरीकरण के युग को देखते हुए पानी, इंटरनेट जैसे आम सुविधाओं की हमारा देश, देश का हर एक बच्चा और यह ही कहा जा सकता है कि अबाध्य आपूर्ति हो। बाकी, शहर का हर एक आदमी नवीन तकनीक को **''डिजिटल बनेगा इंडिया, तभी** कैरेक्टर तो धीरे–धीरे ही तैयार होता है। चुनौतियाः

वाली भारतीय शहरों को 'स्मार्ट सिटी' बना होगा। सबसे बड़ी दिक्कत ये है कि हैं, उनकी सही मैपिंग उपलब्ध नहीं है। इन शहारों की 70 से 80 फ़ीसदी आबादी इलाकों में लगातार आवाज ही होती रही है। ऐसे में आप काम की शुरूआत भी कि नए शहर ही बसाए जाएँ, जहां हर चीज़ कि प्लानिंग पहले से की गई हो। क्या 'स्मार्ट सिटी' जैसे कॉन्सेप्ट से विदेश में भारत की छवि को फायदा होगा ?

> उद्देश्य से ही सरकार स्मार्ट सिटी परियोजनाओं पर काम कर रही है। लेकिन एक मत यह भी कहता है कि वो काम करने वाले शहर बनाए, जहां काफी कुछ हो सकता हो, इसके बजाय की उसे सिर्फ़ स्मार्ट साबित करने पर चिंता की जाए।

> उन्हें 'स्मार्ट' बनाने की बजाय बुनियादी सुविधाओं पर ध्यान देना चाहिए ?

> की बात नहीं वरन हमारे शहरों की



के रहन—सहन में थोड़ी समानता दिखे। सूची में भी ग्वालियर 800 वें स्थान पर अंत में यही कहना चाहूँगा कि — इसके बाद भी शरू की जा सकती है। क्या है ग्वालियर का स्थान :--नाम शामिल नहीं हो पाया। स्वछता

लगता है। तो कैसे बनेगा ग्वालियर स्मार्ट :--अगर बात ग्वालियर की करें तो स्मार्ट सबसे पहले ग्वालियर के प्रदृशण को कांटे के इस मुकाबले में ग्वालियर 84 युक्त है। शहर कि सडकें साफ व चौथा स्थान पाने की वजह से स्मार्ट डिजिटलीकरण में तकनीकी संस्थानों को सिटी के प्रथम चरण में ग्वालियर का बढ़ चढ़ कर हिस्सा लेना होगा। तभी यह कार्य सफल हो सकेगा।

बाक़ी कंप्यूटर और इंटरनेट सेवाएं तो हैं अतः, यह सपना बहुत ही असंभव सा **''मिलेगी परिंदों को मंजिल ये उनके** पर बोलते हैं, रहते हैं कुछ लोग खामोश लेकिन उनके हुनर बोलते हैं।। **सिटी** के लिए प्रदेश से भले ही टॉप 7 नियंत्रित करना होगा। यह सुनिश्चित खुशबू बनकर गुलों से उड़ा करते हैं, सिटी का चयन होना था, लेकिन असली करना होगा कि शहर का हर एक युवा धुआं बनकर पर्वतों से उड़ा करते हैं, मुकाबला चार महानगरों के बीच था। कौशल से परिपूर्ण है व कंप्यूटर ज्ञान से ये कैंचियाँ खाक हमें उड़ने से रोकेगी, अंक के साथ चौथे पायदान पर है। सुनियोजित हैं। इस कार्य में शहर के **हम परों से नहीं हौसलों से उड़ा**

करते हैं।"

जय हिन्द। जय भारत !! 🧍

राष्ट्रवादी नहीं तुम

अमित समदशी IPG-2010

इस कविता के माध्यम से मैं अपने उन सभी आत्म-घोषित "देश-भक्त" मित्रों को सम्बोधित करना चाहता हूँ जो धर्म-जाति और व्यक्ति-पूजा मे राष्ट्रहित को भूल चुके हैं। जिन्हे हमारे देश की शांति व्याकुल कर रही है। जो हर दिन हमारे सामाजिक सौहार्द्य को क्षति पहुंचाने में लगे हुए हैं। ईश्वर मेरे उन सभी "मित्रों" को सद्बुद्धि दें।

> " पढे लिखे हो दिखते तुम, अनपढ़ की भांति लिखते तुम, फेसबुक-व्हाट्सअप की चैट में तुम, विष भरते इंटरनेट में तुम, तुमने मिथ्या का पान किया, मिथ्या को ही सच जान लिया, अब धर्म-जाति और भेद को ही, हो ज्ञान बताते फिरते तुम।

व्यक्ति-विशेष के भक्त हो तुम, ऑनलाइन हर वक्त हो तुम। हो राग-द्वेष की मूरत तुम, दुर्भाव की सच्ची सूरत तुम, तुमने है शर्म को छोड़ दिया, हर तथ्य को तुमने मोड़ दिया, अब कटे-फटे दावों को ही, हो सत्य बताते फिरते तुम।

नफरत के सच्चे दूत हो तुम, भारत माता के कपूत हा तुम, उस जलती बस की आग हो तुम, रक्त-लिप्त वो दाग हो तुम, तुमने जब नर-संहार किया, मानवता को भी मार दिया, अब रक्त-पात और आग को ही, इंसाफ बताते फिरते तुम।

जो हिन्द के हो दीवाने तुम, तो हिन्द को क्यों न जाने तुम, तार्किकता से अनजाने तुम, बस आये हो शोर मचाने तुम, तुमने है राष्ट्र-आघात किया, युवाओ को बर्बाद किया, क्यों राष्ट्रवाद की आड़ लिए, सरकार बनाते फिरते तुम?"





To infinity and beyond...



Like every other idea, the idea have laid a firm groundwork sions. Future plans include of expanding limits of mankind for the upcoming trailblazers to begins with a story, and ironically it begins with the story of This day and age has seen large a child. All along the day, he plays under the sun, and finally, when the sun sets, he lies the reach of mankind. Amongst in the lap of his grandma, listening to stories and fables, and finally falls asleep. Be it the prominent names. Founded in scorching sun, the cool clouds, or the gloomy rain, he is always captivated by the nature of the sky, ever-changing, yet still very calm. He thinks how high the sky is, and even realised and launched many though he knows the results, he first-of-their-kind rockets in tries to grab it with his tiny, clumsy hands. Some accept SpaceX is literally and ironitheir fate, while the others (hopefully) try to fight it, hoping to reach beyond the sky and grab those small, shiny, twinkling stars.

ties. The cosmos, sometimes, seems to be the embodiment of determined goals. The organ-Enigma, waiting patiently for isation is actively pursuing her Alan Turing to break her code and lay it out for the world to see. The ever-flowing time has seen many pioneers trying to push the limits of sci- hicles, an interplanetary transence in order to break the code, port system and a global telebut only a few like Carl Sagan communications and Neil deGrasse Tyson have SpaceX plans to send their really broken free from their first cargo mission to Mars in bounds. They have helped humankind take a leap further mental status and into the unknown cosmos and

make this unknown known.

organisations working way towards the expansion of these industries, SpaceX is certainly one of the most 2002 by entrepreneur Elon Musk, SpaceX aims at reducing space transportation costs and enabling the colonization of Mars. Having successfully the Falcon and Dragon series, cally bringing the expanding universe, closer to us. The organisation has faced many setbacks, but Musk's resolve and persistence of The universe is full of obscuri- not giving up, has helped SpaceX to move towards her several different research and development programs. Most notable are those intended to develop reusable launch venetwork. 2022, to check the environ-

sending of both crew and cargo to Mars, which will serve as beginnings of the first Mars base. But the aspirations of the organisation do not end here. SpaceX also wishes to achieve Earth-to-Earth transportation with the help of its Big Falcon Rocket. It is said that with BFR, long distance trips could be reduced to half an hour or less. The cosmos, along with all its components is undergoing a rapid change. Having realised this, Musk says, "I could either watch it happen or be a part of it."

The question still remains if the changes in cosmos and, tenacity and optimism of the industries have affected the dreams of the child. The child has reached the sky, but his thirst for reaching beyond is still not quenched (and probably never will be). His dream and his never-ending thirst have become the raison d'être for the competing industries. If the odds remain in our favour, it is believed that such innovations may bring about metamorphosis in the humankind so that it could complete its long-awaited spacetime odyssey. 🧍

Puzzle Zone (Answers)

framework for upcoming mis

to lay the

6-Stamp 2-A person's Age 5+5+5+5-4

3-ENL **7-Bookkeeper**

ESTYLE . ABHISHAR V8.0



Breaking silence over single motherhood



Shraddha Sachan **IPG-2015**

A single mother is an individu- media being obsessed with her moved such restrictions in her children without the sup- handled the questions about 2016. port of the biological father or her singlehood with grace. She Single women who want to

spinsters or divorcees either getting married should not be marole for them, and even after adopt children or conceive the only aim in life. some women sceptic of a conthem to single motherhood.

out of self-interest like Sushactress who found her happily-ever-after not with any man, Sushmita was 25 years old, she adopted a baby girl named Renee and chose to take over the responsibilities of motherhood, along with her acting her Alisah. In Sushmita's

babies through modern meth- But does our society accept accorded to a mother in a conods like artificial insemination single mothers easily? Does ventional conjugal relationor surrogate motherhood which our society confer the same ship. opted daughters. In 2000, when sion making and financial re- we currently offer. sponsibilities. Balancing hous- We owe it to the single mothers side nurturing and disciplining better and to become responsexuality is questioned and she as leaders, as co-workers, as career. In 2010, she adopted is derided secretly. "Where's neighbours and as friends for another baby girl and named the father/husband?", is an ex- ushering a benign society, for a tremely words, "I don't need a man in from school admissions to mothers and their families. my life to have diamonds. I can places like supermarkets and People need to change their atown them myself." Despite the public offices. Every legal titude towards single mothers

al who cares for one or more of not being married, Sushmita passport rules in December

has set an example for all become mothers have a har-Typically, women who are women in the country - that rowing time. Adoption is a rigthat, they do not get the respect

makes them assume sole re- reverence to a single mother But not every woman is a Sushsponsible for their children, which it does to a married mita Sen. The fight for a re-Emotionally lacerating experi- woman with a husband and spectable identity in the Indian ences of their own childhood, children? The answer is a stark society for single mothers still like abuse, neglect or abandon- NO. In our Indian culture, has a long way to go. We need ment by parents may also make every woman is supposed to be to rethink our public and cordependent on someone, partic- porate workforce policies and nubial relationship and drive ularly her husband. India does broaden our understanding of not have a "Singles" culture. what a family really means and Divorce or death of husband is The fight for a respectable ex- looks like. We need to build a not always the only reason istence is an arduous one for world where families are embehind a woman being a single most single mothers in India, braced and supported and loved mother. She may take this step in which case their existence is no matter how they fit together. under a continuous threat. We need to understand that it mita Sen, the beautiful Indian There are several challenges a takes a community to raise a woman has to face, being a child and that single mothers single mother. There is often need and deserve a much more but with her two wonderful ad- no other adult to share deci- supportive environment than

> ehold responsibilities, along- and to their children to do children can be tough. Her sible adults. We must do more common question, cordial existence of single document requires information because there is nothing wrong of the male partner or husband, in being one, as long as the upthough the Ministry of Exter- bringing of the child is right. nal Affairs has recently re- Everyone has a right to live



their life, according to their impeding the right of indepensults in a violation of their funwishes and choices and dence for single mothers redamental human rights.

#metoo -The women warriors

Ananya Sharma MBA-2018



For the girl who underwent the unsolicited touch. For the girl who was assaulted, didn't deserve this much.

I know,
It has taken you years
to overcome the fear.
The fear of men,
coming near.

For the trauma stays, longer than one can visualize. It never fades away, no matter how hard one tries.

You remember each sequence of how you were groped by him. It's like a cursed movie, constantly streaming in your brain. Girl, it's powerful of you, to gather the long-lost courage.

To speak up against the evil and address that burning rage. It's beautiful of how you chose to come out of the shell. You've become inspirational, to the girls who've been living in hell.

For you've given 'em the spine, to share their ill-fated stories. To be as bold as they can be, in ventilating their adversities. You aren't seeking validation, the sane minds shall fathom. I know, all you need is support, for that is your only attainment.

Everyone knows,
All you want,
is to empower the girls like you.
All you wish,
is for women to come out of the blue.



Concurent programming with Golang



Arvind Rachuri **IPG-2015**

The world of computing has Goroutines into individual These processes are capable of stack Golang.

Golang was developed at Google by Rob Pike and Ken //Without Goroutines Thompson (the man who gave package main us C) solely with the aim to import (develop a language that is highly scalable and perfor-) mant. It is a statically typed language, which first appeared func say(s string) { in 2009. One of the characteristic attribute of Go is its inherent support for concurrency. This is one of the features } which is not implemented in modern programming languag- func main() { es like C, C++, Java, Python etc at a language level. Because of its simplicity and } its support for concurrency, Go The output would be as you hello is also said to be the C of the can expect: 21st century. Before diving straight into it, the article world assumes that the reader has a world basic understanding of Golang. world The Hello World Program

These are some of the language hello constructs with which the hello reader must familiarize them- hello selves in order to write concur- hello rent programs in Golang.

complex tasks on a single Go. They're conceptually sim- this program would look like: mainframe to decoupling com- ilar to threads but function in //With goroutines putationally intensive tasks different manner. One gorou- package main processes. tine consumes about 4~5 kB of import (memory. Therefore "fmt" execution on the same proces- these are extremely light- "runtime" sor or on distributed systems. weight and cheap to create as) This article introduces the compared to system threads. readers to Golang, specifically The program below illustrates func say(s string) { Concurrent Programming with the contrast between a regular function and a goroutine.

```
"fmt"
 for i:=0; i<5; i+=1 {
   fmt.Println(s)
 }
 say("world")
 say("hello")
world
world
```

need to add the go keyword enormously progressed over Goroutines and concurrency during the function call. Therethe past decade moving from are built into the core design of fore a concurrent version of for i:=0; i<5; i+=1 { runtime.Gosched() fmt.Println(s) func main() { go say("world") //create a new goroutine say("hello") //current goroutine Thus by making the function concurrent, we get the following output: hello world hello world world

> runtime.Gosched() means let the CPU execute other goroutines, and come back at some point. Therefore just using the keyword go, concurrency is intro-To transform a regular func- duced in the program. In the tion into a goroutine, we just above example, these two gor-

hello

world

hello

cate but to use communication from the channel or write usual. to share data.

Channels

accessing the shared memory. receives it. To communicate between difhanism known as channels. A better. channel is like a two-way pipeline in Unix/Linux shells package main which is used to send and receive data. The only datatype import "fmt" that can be used in a channel is the channel type defined by the func sum(a []int, c chan int) { keyword 'chan'. We use a spe- total := 0 cial builtin function make to for _, v := range a { create a channel.

c1 := make(chan int)

c2 := make(chan string, 4)

Both c1 and c2 are channels. } The other datatype defines the type of data that flows through func main() { the channel, (integers in case $a := [\inf\{7, 2, 8, -9, 4, 0\}]$ of c1 and strings in case of c2). c := make(chan int) This built-in synchronization go sum(a[:len(a)/2], c) construct is what enables pro- go sum(a[len(a)/2:], c) grammers to easily and effi- x, y := <-c, <-c // receive from describes ciently implement concurrency c in Golang. Channels can be used as mutex locks or sema- fmt.Println(x, y, x+y) phores according to their dec- } laration. For example, c1 is a mutex as it allows only one Channel uses <- operator to Happy Coding! 1 integer to pass through the send or receive data. channel at a time i.e. any gor- ch <- v //send data outine making changes to the v <-ch //receive data value of c1 blocks all other goroutines reading or writing Runtime Goroutine to c1 from executing till its The package runtime has some it acts like a mutex lock. outines.

outines share some memory, Whereas c2 is a semaphore al- 1) runtime. Goexit() - Exits the Goroutines run in the same elements into it without block- point. synchronization while fifth element and no goroutine cores.

ferent goroutines, Go uses a Let's look at a program to un-tines. efficient communication mec- derstand the usage of channels 5) runtime.GOMAXPROCS(n

```
total += v
c <- total // send total to c
```

operations are finished. Hence functions for dealing with gor-

- but it is recommended not to lowing upto four goroutines to current goroutine, but defered use shared data to communi- simultaneously read values functions will be executed as
 - values to it. c2 is an example of 2) runtime. Gosched() Lets the a buffered channel. So in this scheduler execute other gorouchannel, we are able to send 4 tines and comes back at some
- memory and address space. ing, but the goroutine will be 3)runtime.NumCPU()int-Thus there is a need to main- blocked when you try to send a Returns the number of CPU
 - 4) runtime.NumGoroutine() int - Returns the number of gorou-
 - int) int Sets how many CPU cores you want to use.

Concurrency in Golang is a huge subject and there are many more constructs and techniques that have to be mastered. The topics described in this article are just the tip of the iceberg but are basics that need to be completely understood in order to write concurrent programs in Golang. There are several resources available on the internet if the reader wishes to take a deep dive into the world of concurrency. A really intutive talk by Rob Pike, the creator of Golang the concurrency titled - "Concurrency is not Parallelism". The reader is encouraged to watch the video to understand the nitty-gritty of concurrency.





Rotaract: We together, bring change



Shraddha Tripathi **IPG-2016**

with the coterie, helps us to create special bonds with the population being served, and increases our social awareness and responsibility. Community service or volunteerism allows us to acquire life skills and knowledge while bestowing service upon those who are worth it the most. While serving the people and surroundings around us, we have the room for manoeuvre to see first-hand just how much our work can have an impact on the world. Volunteering helps us to boost our personal knowledge, evolve from novel experiences, and burgeon better interpersonal as well as communicative skills. When we find ourselves actively engaged with the community, depression and stress

us that makes us know that when we are serving others, we're building ourselves."

-Harry Rogers

IIITM Gwalior has been designed to cater exactly to the aforementioned needs. This Club provides ample opportunities for young people to develop the knowledge and skills that will assist them in personal development and to address the physical and social needs of the communities. We enjoy what

Community service engages us we do as we love connecting to we had conducted an appreciathe community, growing as tion ceremony. We presented leaders, grooming our person- mementos to some of the workality, and building networks. ers in order to acknowledge the interactive environment make long-lasting friendships didn't just bring a sweet smile as we believe every successful organisation is fabricated upon the framework of friendship. Owing to our beliefs, we had been doing. A few weeks later, conducted a plethora of events we celebrated Rakshabandhan during past academic session. in Shantiniketan, an all-girls cleanliness campaign. Access members to an aseptic neighbourhood wrapped up in rakhi, a symbol has turned into a hard-to-earn of adamantine bonding. luxury these days. On 15th Our Mission Ahead: We've in-August 2017, we had gathered troduced cating people about impor- pull off can barely penetrate past our own well-being. Our next growth and development of this "The Rotary Ideal is that within interactive session between about their life path, their soon-to-be pass-out seniors dreams and passions. We be-Rotaract Club of Youth at juniors get a career focus, but story worth sharing. We wish to The entire intent. to the lower socio-economic would like to keep moving on an strata in casion of Independence Day, in the first place.

We provide a collaborative and sweat they had shed for our to comfort. This very act of ours on their faces but also motivated them to keep up doing the good work they've already We had kick-started with a orphanage in Gwalior. Rotaract got

a new near the Achleshwar Temple. Humans of Gwalior. We aim to We began our mission of edu- identify ordinary people who an extraordinary tance of sanitation, not just for amount of hard-work every sake of aesthetics but for their single day and contribute to the event was Crosstalk. It was an amazing city. We ask them and first-year students. Our lieve that everyone working motive with respect to this hard, no matter how vapid his event is not just helping our or her life may seem has got a also eliminating the boundary bring out such stories among between juniors and seniors. It masses which will serve as an was followed by Cloth dona- inspiration for generations to tion and Buy-a-Book, two come. We would like to acquite similar events in terms of knowledge the fact that we are IIITM coming on the back of an amaz-Family alike contributed to the ing year and we achieved a lot cause for the people belonging more than ever before. We unequivocal our quest to make this world a manner. On the propitious oc- bit better than we had found it



IAR V8.0 . IIITM STREET



Being Gen-Y



The smartphone era has moved MATURITY tars have replaced sitar and for tween being ambitious, they are the Gen-Y. we make the shift from school it. to college, and meet more and ATTITUDE more likeminded youngsters. When your heavy school bags are replaced by a notebook in hand, when your siblings are the hostel.

sense of independence which you might never have enjoyed. The joy to plan your activitites, the joy to take your decisions, place to learn academics and go through a new set of books, it is the Gen-Y tag.

from Android 8.0(oreo) to The first and foremost thing jungle and shine like a polestar, 9.0(pie). The desktop audience that a college student should and I bet, you will be the topic has made a shift from Windows possess is maturity. But let me of discussion. XP to Windows 10. Metal gui- make a clear demarcation be- **DETERMINATION** mature fame. They are greedy, they are ber, life is like a game of whatsoever it might be. chess, the lesser time you take VERSATILITY

servation these words may you. seem to be synonymous but COME take a halt guys, these three COMFORT ZONE the joy to make an identity of words are very different. Nothing great has ever been your own. Contrary to popular Make a note when I say, en- achieved inside the premises of believes, college is not just a hance your attitude, raise your comfort zone. College life is self respect and subdue your the best place to step out of it. ego. Make your problems face You have less expectations, a place to learn a better way to your attitude, not your fellow almost no pressure of the outlive life - the Gen-Y life. In this batch mates. A 'never giving comes, and time, on your side. article, let us go through some up' attitude charms people Take a leap out of your comfort points that shall let you grab more than anything else. Real zone and explore what lies men shine when the aura is ahead. Face your problems and darkest. Fight your way out learn from them.

through the darkest parts of the

and The trend of digitization has us youngsters, it is time now to ending innocence. You have to bestowed us, students, with a come out of the bounds of be mature at your thoughts bunch of new opportunities. In Gen-X and dive into the ever rather than being at your ac- order to make a mark, you no growing and ever flowing tions. Your ideology, your longer are forced to be a doctor stream of Gen-Y. The Gen-Y is frame of mind should be or an engineer, you just have to smart, is technical and is vi- backed by maturity. If you can be good at being yourselves. Its sionary. The youth today as- think like a grown up and no more a question of turning pires to be popular, to be self enjoy as a kid at the same time, right or left, it is about backing dependent. They are born with you are almost ready to be yourself up with the zeal of a never dying spirit of earning called a mature lad. Remem- proving your choice correct,

Being a part of Gen-Y is not in understanding it, more This period of college life is something evident to us until chances you have of mastering the best phase to explore yourself. You can never stand out of the crowd until and unless you The first thing any third person turn dynamic. The world, sociobserves in you is your atti- ety, technology and customs tude. Utilize these 4-5 years of are changing at the speed of college life to build an atti- knots, and you can never keep replaced by roommates and tude, but before you know how pace with them if you are when your home is replaced by to enhance your attitude, let static. You can very easily find me draw a clear demarcation a software professional also College life encapsulates a between attitude, ego and being an efficient guitarist, and self-respect. On a casual ob- this is where versatility hits

OUT OF YOUR

TAKE RESPONSIBILITY

With great power comes great responsibilities. And everyone knows the powerful. Never my school, getting dozens of idea of Harry Potter series hesitate in taking up responsibility, though you must prepare yourself beforehand for them. Be the one everyone can bank a set of nice hobbies) is like **BEING DIFFERENT** upon for any kind of work, and you will be the one searched for.

BUILD HOBBIES

The things you do when you easily as a hot knife on butter. ent. If you want the world to have nothing to do, are certainly in your radar. You do have keen interest in these tasks and egorize it as their laziness, and ly.

myself with face full of expres- ing, author of famous Harry sions, and a decade later I rose Potter series, was an unnatural to be one of the best orators of thinker and was struck with the trophies in debates, extempore during a train journey, when and group discussions.

A nice hobby (or to be precise, hobby session. having a strong foundation, Don't become the part of rat you just have to build the walls race. With the booming crowd, with a touch of proficiency and if you want to stand yourself you will get on your tasks as out of it, you have to be differ-And for those who have sleep- look you differently you have ing as their hobbies. Well I cat- to look at this world different-

she was drenched deep in her

are better than many at per- it's high time for them to do These are my takes on how to forming them. I would like to something. Reading, penning live a worthwhile life as a quote myself as an example down rhymes or even thinking Gen-Y youngster. Please dont here. I always had an inclina- unnatural is blessings to have spend these golden years of tion towards public speaking. I as a hobby. For those who are college and youth in just buildwas caught many a times in still pondering over the think- ing your resume, build a life front of the mirror, babbling to ing unnatural part, J.K. Rowl- and some very healthy habits.

मुड्डी में तकदीर

मुड्डी में तकदीर अपनी शक्ति अब जान तू ले, अद्भुत करने की ठान तू ले। अब सपने तुझे जगायेंगे, पग जोर की दौड़ लगायेंगे। साधन जो तेरे साथ खडे. अवसर जो तेरे पास पड़े। उन सबको अब अपनाना है. क्षितीज के पार जो जाना है। पर्वत में राह बना लोगे. सागर के मोती पा लोगें, जीतने की चाह जगा लोगे, तो मंजिल पास बुला लोगे।

अपनी क्षमता का भान जो कर, शाक्ति का पौधा सींचोगे; अपनी हाथों से हाथों पर, किस्मत की रेखा खींचोगे। बाधा से जब टकराते हो, समझो बस सरस यही क्षण है, आगे बढ़ने की आग जले, तो वही आनंद का जीवन है। अभ्यानंद कुमार IMT-2018





HISHAR V8.0 _° LIFEST



























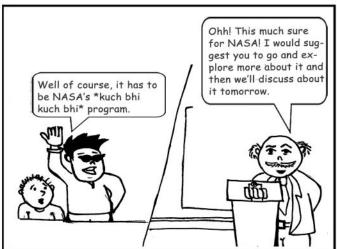
TEAM AASF

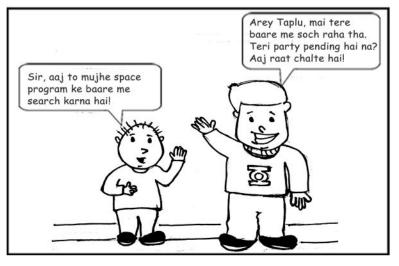
Friends Fun & Dreams

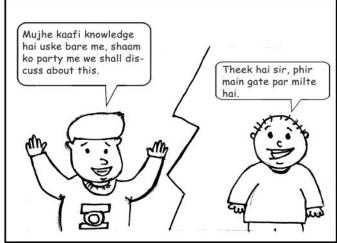
Abhishar is a good friend of students. He listens to their thoughts and experiences. Abhishar tries to chalk out easy solutions for students' problems. They feel motivated on talking to him to showcase their hidden talents. Personally, we feel he carries with him a very positive air and is capable of spreading happiness around. And we will try and make all the possible efforts to help him with this splendid companionship with you.

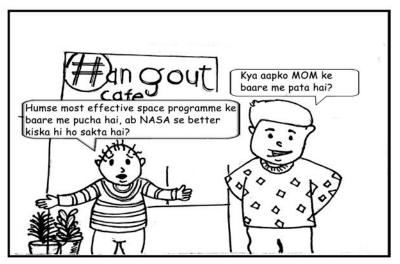
I would like to express my gratitude to Mr. Prajwal Singh, BCS-2017, for his valuable efforts in realising Abhishar and his friends in "Friends Fun & Dreams". We couldn't have done it without him.

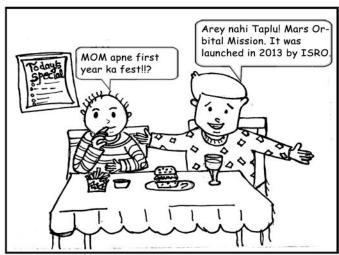


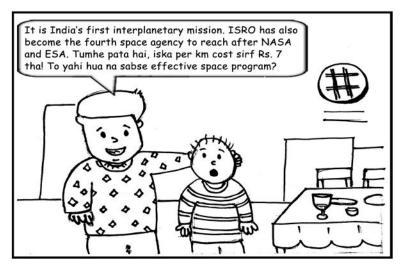


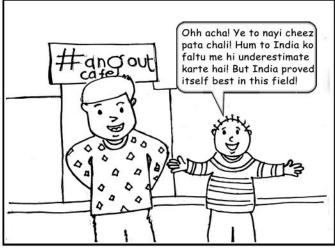


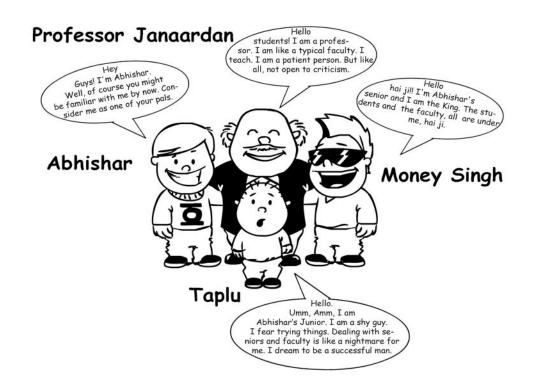






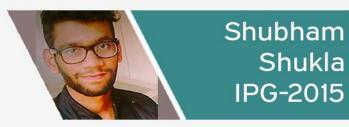








Flavoured inheritance



requirement for development Tree, of open source softwares. We models too. tance and how to tackle issues herit related with it smoothly.

PHP etc. Inheritance is a con- bad design. can overcome them.

introduce a new feature to all port

The development environment paste the feature into all of tions to write various function-RandomForest CommonSVM memory. from class. We will need to create a A popular solution to this is

in our institute mainly covers them. What we do instead is al components and then write web development, app devel- make a new CommonSVM some glue code to combine opment, sometimes game de- class which will implement them together. Using inherivelopment and development this behaviour. All the SVMs tance and virtual functions is a using .NET. They all involve will simply inherit it from this popular solution and many liworking with classes and ob- class. This is a cleaner solu- braries like Qt and Shogun use jects. A widely used concept tion. But then later in the de- it. However, this makes the for object oriented program- velopment phase we realise code very slow to execute, ming is inheritance. Under- that this new feature is needed since the compiler does not standing this concept is a basic in all the tree based (Decision know beforehand what the runetc) time memory requirements Ofcourse we could entail to. Thus, it ends up will discuss multiple inheri- cannot make all of the trees in- taking unnecessary amounts of

To begin with, let's consider an new CommonTree class which using mixins. To understand Object-Oriented Programming does the exact same thing for mixins, let's talk about ice language like C++. There are trees as CommonSVM did for cream. There's this concept of many languages to choose SVM. There would be a lot of ice cream mixins that goes from: Java, Python, Ruby, Go, code duplication and quite a back a long time where you have a base flavor of ice cream cept in OOPs which is used to To understand more about the and then you can put things like share properties and methods problem let's talk about micro- fruit jam or chocolate chips of existing classes with new controllers. A microcontroller and then mix it up. Essentially classes. In simple words, in- is basically a processor with a you can have many different heritance is a way to express a bunch of peripheral drivers on flavors of ice cream with a few relationship between classes. a single chip. There are mil- basic composable ice cream But a lot of Object-Oriented lions of different kinds of mi- types. We can think of butterlanguages don't allow multiple crocontrollers, so if we want to scotch or black currant as an inheritance because of the dia- write code for a driver we want example. This naming convenmond problem. This means it to be cross-platform. But tion was stolen and applied to that a class can't inherit multi- how to implement cross-plat- software where you have a ple parent classes. We will first form when you have tens of bunch of functional compounderstand a few such common thousands of platforms. How nents which you can compose problems, what they mean in do you write bare metal driv- together to make a different practical situations and how we ers properly? This problem object. It's a strategy of cusscales upwards in complex li-tomization points. Many lan-As an example, say we want to braries where the need to sup- guages have this intrinsically, primitive for example D or common lisp. types of Support Vector Ma- types(int, long, float) among C doesn't really have mixins. chines in a library. Since they various functionalities is im- By using mixins we look into all need to share this feature, portant. Since, C is essentially ways for extracting different it's not good design to copy a portable compiler we can functional components generithink of C, C++ based solu- cally so that we make template



meta programming write the implemented methods. glue code for us.

In object-oriented program- mixin provides methods that dangerous. class that contains methods to be used by other classes withclass of the other classes. How the other classes gain access to the mixin's methods, depends sometimes described as being "included" rather than "inherittiple inheritance in a language. also pass multiple arguments to the class they inherit, if any. A mixin can also be viewed inherit from. interface as an

among C++ has plain multiple inheri-

tance, but many language de-How does a mixin work? A signs forbid it as it could be Languages ming languages, a Mixin is a implement a certain behavior, Ruby and PHP however use but we do not use it alone, we mixins or traits to do the same use it to add the behavior to thing. Mixins/traits are harder out having to be the parent other classes. When creating an to abuse than plain multiple inobject from a mixin class, a heritance. The whole point of base class (parent class of the introducing mixins in a lanobject) needs to be passed as a guage is to remove ambiguity on the language. Mixins are template argument. The mixin caused by multiple inheritance. will include the base class and Hence, the Mixins & Traits apmake a new parent class (logi- proach allows you to describe ed". They encourage code cally by merging) for the types by what they can do reuse and this can be used to object. The object will then in- rather than what they are, and avoid the inheritance ambigui- herit from this merged class. more importantly, to opt-in caty that multiple inheritance can Independently, mixins cannot pabilities into your types. It's cause (the "diamond problem") be instantiated due to absence like doing your shopping and . They can also be used to work of a parent class. The advan- picking the capabilities you around lack of support for mul- tage here is the fact that we can want for your type, whatever

में बदल रहा हूँ

आज जब मैं बाहर, कड़ी धूप में निकलता हूँ, खुद को डरा, हारा, बेचैन मैं पाता हूँ।

शायद ये धूप ताकतवर नहीं, में कमजोर पड़ चुका हूँ। क्यों कि बचपन में पहले भी, मैं इस धूप से मिल चुका हूँ।

तब जब मैं अपने दोस्तों के साथ, इस धूप में खेलता था। ये मेरे सिर का बोझ बनकर नहीं, दोस्त बनकर चलता था।

आज मैं कुछ क्षणों के लिए जब, ज़िन्दगी के भाग दौड़ से हटता हूँ। मैं इस दुनिया को नहीं बल्कि, खुद को बदलता पाता हूँ।

मैं कल के लालच में, अपने आज को छीन रहा हूँ। शायद मैं अपने आप से, अपने आप को छीन रहा हूँ।

मिथिलेश कुमार IMT-2018





Mental illness: A black sheep



Mental illness, whenever this Now, its the need of the hour to our utmost attention and care term comes before us we tend seriously consider these issues and above all they need accepto ignore it always as we think and also to accept individuals tance. People fear that such this is not an important thing to discuss or maybe we don't need a discussion on this. But just by World Health Organisation consider that having a mental think for once that, if this is an irrelevant issue for us to ignore? This really raises an important question - are we really "educated", since the main purpose of education is to improve the mentality and to abolish the narrow mindsets hour. which are hampering the suc- Actually the problem is our phases and usually they pass cess of an individual, or the fixed mindset towards this par- but a probability also exists 21st century, we are not properly aware about a very important when it comes to mental health nent. When a person is sufferaspect of human body i.e. a person is suffering from some issue and they lead their whole then we are not even sensitive mental illness then he/she is life in distress. considered a bane. It seems like we have adopted some sort of prejudiced attitude towards well as the end of the society, are going through. As a result, human mind. If you are having Firstly the sufferer is unable to sufferers are not even able to some physical health issue then identify that he/she needs help share their problems. Living its very much "normal", but even in the darkest dreams of agnosed and if in case their ill- more difficult than living with from some mental health issue you are directly termed as "abnormal".

In this century, where our life- physical illness. And when it If a person catches some infecstyles have changed drastically we have become much more prone to stress, anxiety and other mental issues.

India. Mental distress is one of true. the major cause of students Every person is equally prone

The problem lies on both ends: them and even give zero efforts at the end of the sufferer as to try to understand what they accept that having a mental ill- people are going is possibly ness is as normal as having a unimaginable for us. comes to the part of society tion or cold, he/she will see a they consider it as a thing to be doctor but if a person is having ashamed of. In most cases anxiety or anything similar even families are not in sup- from a long time, he/she might port, which worsens the condi- not even think of visiting a tion. We need to understand shrink. Because visiting a that a person suffering from doctor in this case is a sign of

that are suffering from these people are violent and are not issues. According to a report safe for the society. They even it has been estimated that 56 illness is a sign of weakness million people are suffering and these issues are usually enfrom depression and 38 mil- countered by persons who are lion from anxiety disorders in mentally weak. But it's not

committing suicide every one to these issues. Every person experiences high and low society as a whole. Even in this ticular issue. We have such that these phases might not rigid and stagnant mindset pass and may become permathat we tend to unsee the reali- ing from some physical illness mental health and the problems ty. That's why most of the we sympathize with the pain of associated with it. There are so people are unable to identify that person but if a person is many stigmas attached to it. If that they are having some having some mental ailment enough to behave properly with and their illness is not even di- with a mental illness is much yours if you accidentally suffer ness is diagnosed the sufferer a physical illness. The extent of himself/herself is unable to pain through which these

some mental illness needs our "weakness". And even for peo-



doctor in this case is a sign of other psychologists. decision support their

mental health scenario.

Firstly, we need to accept that can also motivate them to try illnesses like depression, anxi- to develop a positive outlook slow death.

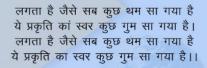
not even think of visiting a ety, bipolar disorder, panic att- for themselves. shrink. Because visiting a acks etc. can occur jus like It's important to motivate them diseases "weakness". And even for cancer, infection, jaundice etc. pit, without which there is no people who want to visit pro- can occur. There is no rocket surety that they will be able to fessionals, a major problem is science needed to understand travel alone. If we are successstanding before them. A study and accept this fact. It's just ful in developing this attitude shows that in this country with that we need to have an open in our society and if the society a population of over 1.3 bil-mind and an open heart as well. as a whole gets aware then lion, there are just 5,000 psy- Secondly, as a family we these illnesses will not take a chiatrists and less than 2,000 should have a more open out- monstrous form and also we The look problem is that there is zero member who is suffering from (professionals, society and the awareness in this field, patients some mental ailment. They patient are not aware about their ill- need our support, care and defeat this monster. If we start ness so doctors are also not acceptance. It's important to accepting that mental illness is motivated to choose this field talk to them and find out what just another type of illness and as their career and in some is wrong with them and it is of not the result of bad fate, then cases, their families also don't utmost importance to consult a it is possible that the coming of professional if you feel like generation will be able to see a choosing this field. We can see that they need help. If we will much more brighter sun with a how pathetic the condition is in be there by their side it will fully aware and an accepting give them a lot of strength to society. It's an alarming situation. We fight this battle. This is the lea- Having a mental illness is not need to understand that only st we can do, despite knowing similar to having a cold, it with the contribution of all of that only they can fight their might be equivalent to having a us, it is possible to improve battle but we can at least moti- cancer if proper measures are

like cold, to come out of this black towards our family will have a well-equipped army himself/herself)

vate them to not give up and not taken in time. It may force a person towards a painful and

प्रकृति का स्वर

शिवम सोनी IMT-2018



वो चह चहाते पछियों का स्वर वो सिर सिराते पौधों की सिसिर लगता है जैसे सब कुछ बदल सा गया है ये प्रकृति का स्वर कुछ गुम सा गया है।

वो सुबह सुबह जल्दी स्कूल जाना उल्लास वो शाम से रात तक मित्रों के साथ खेलने का अहसास लगता है जैसे सब कुछ बदल सा गया है ये प्रकृति का स्वर कुछ गुम सा गया है।।

वो मित्रों के लिए कछ भी कर गुजरने का जज्बा वो भाइयों का बहनों पर जान छिडंकने का जज्बा आज भाई भाई का दुश्मन बन सा गया है लगता है जैसे सब कुछ बदल सा गया है ये प्रकृति का स्वर कुछ गुम सा गया है।।



Journey to the centre of my dreams



Irita Mishra **IPG-2013**

Disclaimer: I always rant novels as a kid. read about some crazy old ABV-IIITM. year because they sound so point, don't you? This probably feels less and less like a article.

exotic places we cannot pro-English though, lol)! I say this like I mean it. And I do. I was always this little girl who had reaching for the moon. It was in my dictionary meant someachieve. I dreamt of contributing to the world in a big way, making an impact with my experiences and life, like I had

this one if you don't want to came to a stop when I came to to code or develop like our College senior who always puts weird changed my perspective. The were broken because we didn't disclaimers in all her Abhishar very innocent girl whose life know where to go; we were the articles which she can't bring was constricted to the pages of misfits. Little did we know that herself about to read the next the books she read, was now in we would create our own new, non-hilarious. You see my with real people and real emo- things to learn. Our classes tions. I forgot my dreams as I became more interactive as we disclaimer if you're still read- new setup where everyone topics that were relatable to us. ing, let me just begin the real seemed to willingly enslave We were studying more sub-We've all imagined how we day out. I respect those who M.Tech but we were enjoying want to live our lives, right? It find solace in the trade but I it. definitely involves a ton of wasn't cut out for something And amidst all this, the little five-year long journey.

I was one of those students stars in her eyes and hopes of who always topped during her school days, so imagine how maybe because I read too much it broke me when I many books and got lost in all flunked a subject during my the fiction that kept me in its B.Tech because I couldn't seductive company for hours understand why I was studying at end. Or maybe, I always be- it and I couldn't cram my way lieved in the impossible which to get a decent score. It took me a long time to realize that thing that was just harder to maybe, I wasn't cut out to be But I realized it in time to shift over to MBA in my fourth year. And I found these incredread in all those books and ible people who felt what I did, broken ones, just wise enough

to know that we wouldn't surabout my experiences, so skip All my dreams and desires vive a day if we put our efforts life other "engineer friends". We a demanding, radical world exciting world full of fun and scrambled to be a part of this debated on and presented themselves to code day in and jects than our counterparts in

money, an eye candy on the like that. But the worst part girl in me rose again. I wanted arm and vacations in all the was that there was no one who to document my life just the felt what I did. Or maybe they way I had read in those novels nounce, doesn't it? If it did not want to admit to them- all those years ago. For that, I doesn't, you got to chill out selves or others that they did. had to make it epic enough to more and have better aspira- All I know is that I was on this be an interesting read. For that, tions man (not with this ghetto path alone, fending for myself I had to have a unique story to at every step of my sad, little tell. I started writing my own destiny. I knew my strengths and I started learning how to put them to good use. I wanted to study more, become wellversed with the subjects I was passionate about and gain more knowledge. I set out to prepare for PhD abroad, doing projects writing research papers. People who knew about my aspiration called me 'Phira Hua Dimaag' (the very famous vean engineer, much less a coder. rsion of the full form of PhD). Nobody actually understood why I wanted to do a PhD when I could easily get a good job and settle down in a metropolto some extent. We were the itan city, like everybody else. Instead I was ready to slog hard





hard and lose all my hair to the nized that little girl in me with enough, ain't no valley low of research.

all, I was just a 22 year old with no work experience, applying to the best universities in the US. I was sure that all because of my immature professional profile. But apparently, there were some people study some 15,000 kilometers big, American dream. When I months ago and talked to the me for my PhD program, they that you really want to do this. lose it."

I realized that they had recog- there ain't no mountain high

always wanted to

all said one thing to me: "We did. This is my unique story because I miss IIITM. felt that you can do great and for those who are still Cheers! things in this program because reading this, I am sure your Irita Mishra (IPG-2013) is altogether! My sole aim for is a great orator and writer. Please ensure that you do not sharing my life yet again in Abhishar is to enunciate that

tension-filled, uber-tough life those big dreams and a burning enough, ain't no river wild desire to make a mark on the enough, to keep you from your I also didn't believe that any world. I was also the youngest dreams. (Yeah, it's a poor university would actually take student to ever take admission adaptation of the awesome my application seriously. After in any PhD program in this uni- Marvin Gaye song but it is versity. So now, instead of what it is.) Remind yourself of curbing my dreams or repress- what you want to accomplish ing my aspirations, I have set and repeat it to yourself everyout in this new world to con- day like the Wolf of Wall Street universities would reject me quer my fears and hurdles, and hum, beating your chest with prove the power of my deter- your fist in rhythm (or not, lol). mination to etch my name in Know that you are capable of the history of this world. It is a wonderful things; you only out there, on the other side of tough life out here but I know need to put your heart and soul the world who felt like I had what I signed up for. I feel to accomplishing what you the potential to create some proud that I represent my coundesire. There is no shortcut to unique research. A few inter- try in the most charming way, success but that road sure is lit views later, I was all set to that is, through my intellect and ready to be trodden. Never and creativity. It is an eye- forget that you got only one away from home and live the opening experience because I life you can remember and am learning a lot and assimilathere is a big, colorful world finally arrived in the US two ting heaps of knowledge like Iout there that needs to be conquered. Give wings to your very same professors who had I do not write this because I goals and take flight! And, if interviewed me and selected want to brag about myself or you ever come to the US, text demand appreciation for what I me and we will catch up

of the conviction in your voice story will be another epic saga currently pursuing PhD and

Beauty is incomparable

The face of a toddler. without using any moulder, is cheerful, joyful, adorable but incomparable.

The moments of childhood, the friends and that brotherhood we were when unstable, that phase was incomparable.

The love of a mother. the world shown by a father, is beautiful and palpable but incomparable.

The beauty of nature, amidst her creature, giving a mighty flavour that will last for ever, that beauty is incomparable...

Rishab Singla IMT-2018





STREET ABHISHAR VO

ADIEU



Technos

These 5 years have been a memorable ride for all of us. How far we have arrived is something amusing and alluring at the same time. When we arrived we were strangers to each other. But now we are leaving as a family. Each one of us have been through moments of joy, sorrow, excitement and what not and we have shared it all with each other. We are definitely going to cherish these moments throughout our life.



Kriti Singhal

Bidding goodbyes have never been easy! The memories we all shared are countless and unforgettable. These 5 years have indeed been the most beautiful years of my life. However hard the paths be, it becomes so easy with these people walking by your side. Those parties, those kitchen sessions, those 3 am talks, last moment studying, will all be missed deeply! Create as many bonds as you can, make as many memories as you can coz that's all you're gonna have when you leave this place. Live every moment to the fullest, break the rules, explore yourself and keep spreading smiles. Sayonara!



Utkarsh Yadav

We may come from different background but here we all are cherishing each and every memory spent together. Maybe the distance can separate us apart but when we will look back at our days together, that midnight birthday bums, that late night fear of exams, those bunks and proxy, we will have all those memories preserved. Fifth year makes you realise that no matter how much you hated your academics, in the end you will always miss the time spent together. It may be an end to this chapter but the characters in this chapter are for life. All I remember is that a famous line "It's like the end of an era."



Chahes Chopra

New hostel life-no friends-yucky mess food to endless memories-countless friends. The integrated course of 5 years is a blessing in disguise. The fests, trips, birthdays and even the exams were good enough to give us some unforgettable memories. Bookworm to slacker, introvert to extrovert, religious vegetarian to a non-veg lover, IIITM transformed all of us into a whole new personality. Going to miss each and everything about this college. Will sign-off with not a goodbye but a thank you for all life long bonds and memories. So here it is, to the amazing 5 years of our life. Cheers!

ADIEU

Aniket Gupta

You now stand at the threshold of a dream life .This 5 year journey would build your future. I would like to share some of the things that have shaped my life too. You are always a learner, read as much as you can, enjoy travelling in your college life with your friends. Never give up on your dreams and keep hustling. Wish you all a great journey ahead. At last, I'll say - "Babumushoi zindagi badi honi chaiye... lambi nahin."



Manish Das Mohapatra

The times together with such solicitous friends has taught me things about life. "I've learned that goodbyes will always hurt, pictures will never replace being there, thanks is a feeble word, some mistakes deserve forgivance, words can never replace feelings, and love will always be there no matter how much hate. "Coming up on the epilogue of this story, I know for sure, we are not going to shed tears because we know this might be the end of 5 swift years, but this is not the end of us.

Cheers, to the good days ahead. Long live The Pied Pipers.



Lingala Bhargavi

These five years of college life flew away in a heartbeat. It seems as if it was yesterday that I joined this institute having myriad questions Nevertheless, I am proud that I would be departing with a bag full of values this college life has taught me – treating people of different religions and cultures equally, the Rich and the Poor; importance of time and finally what true friendship is! We all are united regardless of all the differences. Salute to the education- it has transformed us into real human. This college life has made me understand the true essence of life!



Sneha Susarla

Five years seemed like a lifetime when I first came here, but it's crazy how the years fly by. There was adrenaline, drama, loyalty, adventure, learning, love, growth, and most importantly, friendships that are destined to last a lifetime, all in one place. ABV-IIITM, with all its quirks, has been like home for the past five amazing years and it pains me to bid good bye to the family that I have found here. To all the juniors reading this, make the most of the time you have left of the five golden years of your life, dare to stand out and find your passion. I wish you all the very best in your life ahead!





Abhishar: A cradle for budding writers



Deepankar Singh IPG-2016

us there are many who can be form for emerging writers. many who can be the next experience when you develop

others to feel. Many amongst together. us are very emotional but only Ever wondered what makes a slips off. a few find the right platform to writer showcase their emotions.

the Abhishar, the annual magazine nect with the masses at the

exceptional Every college has a magazine heavy words whose meanings college life the most happening which showcases the writing you have to look for in the dic- phase by cherishing all the abilities, intellectual and emo- tionary nor it's the brand value moments that make your time tional thought process and cre- of the publisher. An exception- here memorable. students. al writer is one who can con- Happy writing!

We are engineers but amongst of our college is one such plat- very fundamental level, that is emotional level. If you can the next Michael Jackson, It's an all together amazing express it well then people will definitely connect with it. Leonardo Di Caprio and many a keen interest in learning new Writing not only improves who can be the next JK Rowl- words when you read articles one's vocabulary but also helps written by your peers. People to develop a rational thought Writing is an emotion which who have had interest in writ- process. So the next time you comes from the heart right onto ing but couldn't nurture it due come across a random thought paper. The nostalgia that you to academics can always start while sitting in the lecture thefeel but can't get rid of, the joy writing again to outflow their atre trying to make sense of that you experience but can't emotions which can open what the professor is saying, share with others, the sorrow doors to new dimensions of going on a trip with your that you mourn but can't get career. College is the phase friends with earphones plugged away from are all emotions where one has a lot of time to in or simply lying down staring that can be penned down and build his personality weaving at the roof and waiting to fall released into this universe for each and every aspect of it all asleep, write it down my friend at that very moment before it

> from I am sure you will definitely others? It's not the use of those feel light hearted. Make your

Heart Breaks. Love Awakes

I used to think That Heart-Breaks are not poetic. That they are full of sad songs, Sad eyes and skipped meals, Or strangers you spend nights with, Just to forget a certain face. Or be drunk enough, To see that face everywhere. I used to think, That Heart-Breaks are about Ignored text messages, And false assurances you give, Trying to convince your bestfriend, That you are okay,

Aitik Gupta IMT-2018

That your eyes, Are not swollen red because of tears, But instead 'something' got into them.
I used to think, That Heart-Breaks are so painful, That it hurts to breathe, Because every breath utters your name, That sleep only comes, When I gaze at your face. I have tucked safely under my pillow, A bubble of dream I was striving in, But then it finally broke, And I still loved you, A little more, Than I did before.



IAR V8.0 . IIITM STREET

Shivam Sinha IPG-2014



Create your 1st gem in ruby

In the words of the official doc- s.name = "my_gem" umentation, Ruby is a dynamic, s.version = "0.0.1" open source programming lan- s.date = "2018-09-28" guage with a focus on simplici- s.summary = "My new gem" ty and productivity. Ruby is s.authors = ["Shivam"] super easy to read (syntactical- s.files = ['lib/my_gem.rb'] ly) and write. It is super flexi- s.require_paths = ["lib"] ble. There are many DSLs end (RSpec, Thor, Cucumber...) Here s.name describes the that tweak the syntax to be name of your gem. Similarly, more fitting for a particular version, date and summary are task or purpose. This can be super confusing at first but gets easier and more useful as you use it. Ruby is modular (very similar to Python in this way). s.require paths specifies the External libraries are called "Gems" and there's a zillion of Ruby files that should be them. Maybe two zillion. Most loaded with the gem. tasks that you would want to do can be handled by a third party Gem - just include the Gem and start using it! In the coming paragraphs you will get a brief cd my_gem idea of the sparkling language.

RubyGems

RubyGems are package manager which are used to install various gems(libraries) to your system. Just like we use pip in python.

Let's Begin File Structure:



GemSpec file

This file contains the specication of your gem that describes your gem.

Gem::Specification.new do |s|

self-explanatory. Now, s. authors describes the author of Add this Gem File to another gem, s.files lists all the files that are included in gem and directory that contains the

Steps to create gem file:

Open your terminal and enter Run addition.rb: these commands:

mkdir my_gem mkdir lib

Create the Gemspec file: vi my gem.gemspec and copy the above code. Add files to your library:

cd lib vi my gem.rb

Copy the code below in your List. my gem.rb file.

module MyGem class Calculator def self.add(a,b) puts (a+b)

end end

The root file inside "lib" will usually match the name of the gem.

Generate the Gem File:

Now we generate the gem file so that we can use this code in other ruby program.

Run this command on your terminal to generate gem file. gem build my gem.gemspec

Installation of My Gem:

Now we have our gem file, we can use RubyGems to install gem on our system.

gem install my gem

Ruby File:

Create a file.

vi addition.rb

Copy the code below in your addition.rb file.

require 'my gem'

MyGem::Calculator.add(4,5)

ruby addition.rb

You can see the following output: 9

And you just made your first program in Ruby.

Startup businesses are a huge thing, and there's plenty of opportunity as a Ruby developer. It is the 4th most demanded programming skill on Angel-

With the rise of Node.js, Ruby on Rails' popularity has diminished somewhat, but thanks to the ease of prototyping with Ruby on Rails, tech startups continue to love it. So keep exploring, you never know which tech becomes the next buzz.

Happy Coding!



One day it just clicks



Palak Jain **IMG-2017**

genius inventor. But the age of four, couldn't write there. have the Theory of Relativity one's life won't always be a his work.

common words you will hear try sible ways to drift you apart success is your endeavours cannot succeed.

piece of cake. You will face So now is the time for you to making them

"Great spirits have always from your steps of triumph, and efforts and the talent to encountered violent opposition That would be the time for you turn deaf ears to useless sayfrom mediocre minds" - Albert to make the best choice for ings. Let me relate you with Einstein. Certainly marvelous yourself to not to care about another instance, from the life words penned down by the what other people say or think. of Steven Spielberg. He has you If you can believe in yourself directed the blockbusters "ET" people know what, Albert Ein- when no one else does, you and "Jurassic Park". But to stein couldn't even speak till will become a winner right your amazement, the man was rejected from a prestigious film till age of seven and was Life is very short, don't let school. But he did not let himexpelled from school too. Soci- others ruin your life or hamper self encumbered by such an ety had accepted him as a men- your thinking. It is a common early rejection. He made himtally retarded child. He was observation that people who self renowned in the world by mocked in the school for his think a lot about what others the very thing at which he was consistently poor performance. would think of them always accused for not being good at. And to all such peoples' remain unhappy. You have a He didn't stop himself from the wonder, that child won the complete copyright on your work that interested him. He Nobel Prize in Physics. Had he life and do not let anyone answered back those people accepted himself the way soci- make you feel guilty for living who had shut their doors on his ety pictured him, we wouldn't it your way. It is for sure that face and had mocked him for

'You are unfit for the work', accusations, harsh words, crit- set your priorities to what is 'You cannot do it', 'It' s way icisms. Such factors tend to important and what isn't. Learn out of your league' are the most weaken an individual. Rather to care less about what others your think of you and be more confrom the society surrounding strengths. Remember all such cerned of what you think of you. The society of those lack- adverse situations and let them yourself. Strive each day for luster people who themselves pierce your heart. That will better outcomes. Think of those are not capable enough to bring make you even tougher than bad times you have surpassed a positive change but rather before. Strive each day with and smile because that is the have big mouths to hinder the extra effort than the day moment for you to be truly ones who wish to bring a trans- before, set an example for proud of yourself and the formation. Throughout your yourself each day. I personally person you have fought to battle for success in life, you think that the thing you should become. Remember "kuch toh will meet many such people worry about is your character log kahege logon ka kaam hai who will let you down, who and not your reputation, kehna.." Uplift yourself from will shatter the firm wall of because your character defines getting affected by what people your self faith, who will make you and your reputation is say or think. There will always you perceive you are fit for only what people think about be those people who want to nothing and would try all pos- you. The strongest factor for see you fail because they

> "To all the people out there judging, it doesn't define the one whom you judge, it defines you"

ABHISHAR V8.0 . LIFESTYLE





Connecting the dots: from IIITM to Google

begining so you have to be a bit cleared patient for this one.

exact input and output as speci- ment skills. total awe of the world of com-Codechef and CodeForces.

AASF PC was one of the seven-eight contests.

After passing from IIITM in was able to secure 22nd rank DS, Algos and my projects. 2017 I got the amazing oppor- in Codechef Cook-Off and was After passing from the institunity to work in Google Pay as Candidate Master in Codeforc- tute, some interesting stuff Software Engineer. In this arti- es. During this time, Google happened with the WorksAp cle I will share my entire expe- organised its APAC Codejam offer. They changed the work rience over the college years for internship and full-time location to Tokyo and due to which helped me learn a lot . It software engineering roles. I their financial losses, they put has every thing right from the stood 35th in the country and some risky terms in their offer the When I joined IIITM in 2012 time, my CV lacked good proj- Paytm. Thereafter, I thought there was a decent competitive ects and internships, so I got there is still some more left for programming culture here rejected in HR screening me and just after ending my But, I never knew what await- round. Everything happens for placement 1.0 season at instied me for the next five years. a reason and this incident tute, I jumped into placement During my first year, I worked increased my cravings to join 2.0 season. One fine day, I got very less in CP. As soon as I Google. Nowadays, folks are a call from a Google recruiter passed my first year, I entered doing great internships in col- regarding SWE role and I the world of competitive pro- lege and this is good as con- expressed my deep interest in gramming. I was referred to verting intern to a full-time that. Shortly, I was notified for start with SPOJ. I solved the offer is easier than a complete interviews at the Google Banfamous "Life, The Universe full-time interview. At the end galore office. Most of the part and Everything" problem on of the fourth year I did an in the interviews focussed on that it as my first submission. It internship at a startup in Ban- programming, algorithms and was only then I realized how galore and it helped me in data structures which were my these online judges want the enhancing my web develop- strongest skills. Around 10

fied. As soon as I successfully Now, the placement season I had been offered a position of solved this problem, I was in started and I was confident Software Engineer based in enough with the DS and Algo- Hyderabad. It was a dream petitive programming. I con- rithm stuff, so I started brush- come true. It was simply the tinued with learning basic ing up my OS and DBMS best thing that could have hapalgorithms in competitive pro- concepts. I was able to clear pened! I had 3 offers from comgramming when I encountered interviews of Works Applica- panies like Flipkart, Uber and a problem. I was doing good on tions Singapore and Paytm- Google and I decided to go I completely the first two companies that with ignored regular contests on visited our campus. I decided Google. to join WorksAp as it was an I want to walk you through my international offer and they interview experience. Generalmost exciting platform for us were offering path-breaking ly, there are 1-2 phone screenduring our third and fourth paychecks. In early 2017, I ing interviews and 4-5 onsite year and I stood first in almost also cleared interview for one interviews for SWE role at of the most sought after com- Google. In my case, it was one During this time, I was doing pany- Directi. Most of these telephonic round and after that decent in live contests also. I interviews were focussing on

cut-off rank letter. I decided to decline that required for interview. At that offer and started working for days later, I received a call and the obvious

that I was called to Bangalore NDA, I am not disclosing the can also hone their web develfor 5 onsite interviews. There exact questions but folks can opment or ML skills and can is one cool thing about these look for Google interview get basic fundamentals of DS looking for how much "Geeks- and InterviewBit. Currently, I follow your passion! but they compel you to think at Google. overall interview 3.5 out of 5 you to always start with practite entire journey. in terms of difficulty. It cov- tising simple problems and Stay Hungry. Stay Foolish. 🧍 ered questions from topics like dive deep into them. Apart Map, Set, Heap, Recursion, from your knowledge, it is very Alok Sharma (IPG-2012) is Hashing some designing and coding stuff. I ing and coding speed for inter- ware Engineer at Google. used a lot of STL in my inter- views. For people who don't

interviews they aren't just experiences from Glassdoor and Algo. Trust me, always forgeeks" you have browsed am enjoying my work and life I strongly believe that the jour-

basic important to have decent think- currently working as Softview. Due to the signed like CP during college, they

ney is far more rewarding than on your feet. I would rate the Friends, I would recommend the goal. I learnt a lot during

SPECIAL THANKS TO ...



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Mayur Gupta

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2010

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2013

Shreya Sinha Shubhankar Mohan Sneha Saharawat Tanmay Gadpayle

2012

Annu Sachan Kushagra Varshney Rohit Retnakaran Shreya Lohani 2011

Aditya Verma Chitranjali Banjare Rajkumar Verma Riya Naval

2014

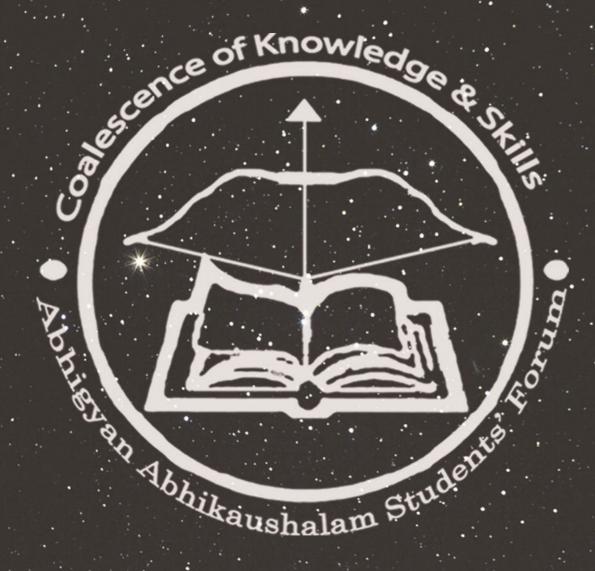
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