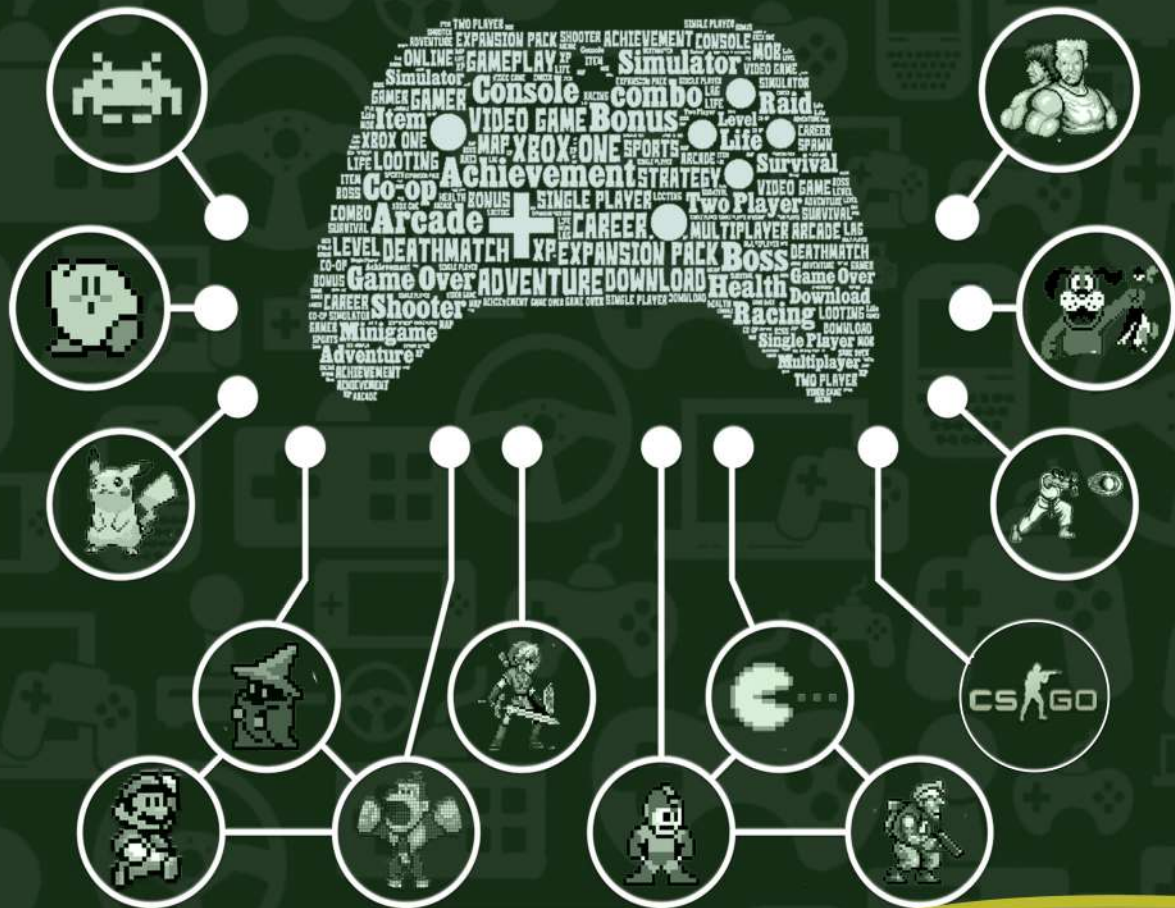




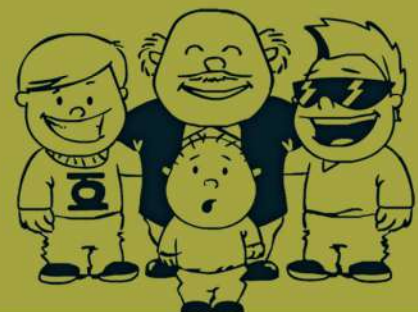
ABHISHAR



**VOL
7.0**



“Friends, Fun and Dreams”



02

Cloud is not the future
It's the present

28

Eighth Generation
consoles :: 360
Gaming's

TEAM PATRON

PROF. S.G. DESHMUKH, DIRECTOR, ABV-IIIITM

MR. PANKAJ GUPTA, REGISTRAR, ABV-IIIITM

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KOLLA RAJA SEKHAR (IPG-2011)

GAURAV YADAV (IPG-2011)

Director's Note

I extend my heartiest wishes to ABHISHAR. It is a great platform to peep into the thoughts and minds of the students. It presents information about the new coming technologies, cherished experiences and thought provoking ideas in a creative manner. The launch of the seventh edition is very overwhelming and I extend all my warm wishes for a huge success of ABHISHAR.

Prof. S.G.Deshmukh
Director, ABV-IIITM

Registrar's Note

"Abhishar" is a concerted effort of the Abhigyan Abhikaushalam Students' Forum to offer help, guidance and assistance to fellow students. The peer to peer methodology, promoted by AASF is the most practical approach to comprehensive learning as it helps to create a competitive spirit. Abhishar is a decent endeavour by AASF, which along with commemorating our students Abhinav and Tushar, also provides a medium to the IIITM fraternity to get their views, opinions penned down at a single place and spread to all others.

Mr., Pankaj Gupta
Registrar, ABV-IIITM



Editor Writes

"All work and no play makes Jack a dull boy". Gaming has always been an integral part of human life and in this year's edition of Abhishar we celebrate the art of gaming. Gaming experience has come a long way in the past decade or so. From the clumsy, pixelated blurred and graphics of GTA Vice City to the crisp and sharp experience provided in GTA V, the gaming scenario has been completely revolutionised. Gaming is no more a secondary benefit of technology, it has been a contributor to the evolution of technology. Graphic Cards, Augmented Reality are all the by-products of gaming arena which now the whole industry exploits.

Abhishar is not merely a magazine. It is an amalgamation of memories and ideals of our diligent friends – Lt. Abhinav Saxena and Lt. Tushar Sharma which we honour and respect from the deepest part of our hearts. It is fire ignited by their ideals of service and amiability that pushes us to design each and every page of the magazine with the same amount of dedication. Abhishar now is an indispensable part of the institute's ecosystem, becoming the mouthpiece of the student community. This year, we strive to take the experience of magazine a notch higher. We have developed an Android app to let the reader exploit the benefits provided by Augment Reality to elevate the experience of reading a magazine. AR offers a nice way to channelize the information flow and increase user interaction with the magazine. Scan the QR code provided on the same page and download the app.

Abhishar is blessed to have a commendable readership. The team takes utmost care to squeeze out each and every bit of error in the magazine, but human errors are difficult to avert. Your suggestions and feedbacks are heartily awaited.



-Shubham Shukla

Faculty Speaks



I extend my heartiest wishes to ABHISHAR. It is a great platform to peep into the thoughts and minds of the students. It presents information about the new coming technologies, cherished experiences and thought provoking ideas in a creative manner. The launch of the seventh edition is very overwhelming and I extend my warm wishes for a huge success of ABHISHAR.

Dr. JoyDip Dhar
Associate 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



I am glad to see the unceasing success of ABHISHAR and must congratulate the bright minds of ABV-IIITM, Gwalior for the upcoming volume. It is a really great platform for the students to come forward and share their views and lifelong experiences. In my view this is a fruitful medium to students' creativity and team spirit. I extend my heartiest warm wishes to the editorial team, volunteers and all contributors for such a dynamic effort!

Dr. Neetesh Kumar
Assistant Professor, ABV-IIITM

I am happy that, Abhishar, the biblio-podium is in its seventh edition providing another opportunity to articulate the young minds' perception and experiences. I wish the entire editorial team and contributors to keep marching towards the endless journey of Abhishar.



Dr. KK Pattanaik
Associate Professor, ABV-IIITM

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GEEKS CORNER

LIFESTYLE

IIITM STREET

»» ABOUT AASF AND 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 this techno-managerial world. Activities are based on the concept of peer to peer learning.

◆ TECHNICAL SECTION

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

AASF-ICPC, Codehub and Junior PCs : Frequent Programming contests conducted on the format of AASF-ICPC to provide a perfect platform to practice.



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

Web Designing week: Acquaintance 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.

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

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

Composition del' Image: This event involves formation, narration and enactment of stories entrenched in pictures.



LITERARY SECTION ◆

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

MANAGERIAL SECTION

Brand Aid Contest: Event to provide an opportunity to blend creativity with originality and endorsing a product by elaborating its attributes.



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

Case Study Contest: Aims to improvise the ability of students to analyse, explore, innovate and thus render an 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.



Events & hIQs





Let me propose something at the start, before we jump in to the article.

I say, "The probability of a rare (or) a less probable risk event" happening is high, because, as per the law of probability,

$p(\text{less probable event happening}) = 1 - [p(\text{high probable risk event happening})]$. And I further say, that the $[p(\text{high probable risk event happening})]$ is less, which $\Rightarrow p(\text{less probable event happening})$ is high.

Do you agree? If your answer is a no, let my article explain you why. And if your answer is a yes, check if your justification matches with mine. In either case, let us try to understand how this equation is even relevant to us.

While you would easily agree that the $[p(\text{highly probable event happening})]$ is high, you need to understand why the $[p(\text{highly probable Risk event happening})]$ is less. For you to understand the above statement, you need to know about my classification of events into two, the "Normal events" and the "Risky" ones. A normal event is an event which happens in routine life, has less impact and is predictable, while a "Risk Event" is something which has an extreme impact, retrospective predictability and the one which is often not taken into account. We are often prepared for the

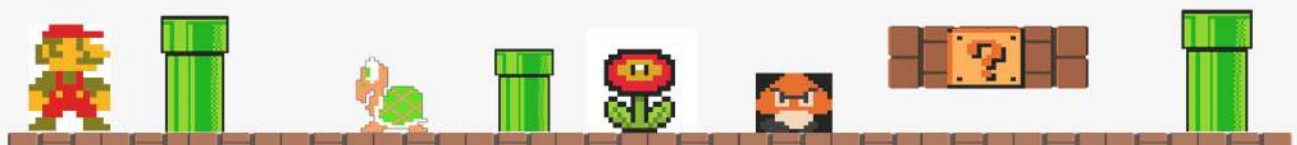
"Highly probable risk events" and hence, the chance of their occurrence is low. Which implies that, \rightarrow What you don't know is far more relevant than what you do know.

Just imagine how much of what you know might have helped you in guessing what was to happen next. I can easily bet that not even a few might have guessed events like the rise of Hitler and the subsequent war, the spread of the internet, the rise of the Islamic fundamentalism, and about the market crash of 1987. Consider the Hud-Hud Cyclone of October 2014, in Visakhapatnam. Had it's intensity been expected, it would not have caused the damage it did—the areas affected would have been much less populated, a strong warning system would have been put in place. What you know cannot really hurt you. This article is about uncertainty; and to me, the rare event equals uncertainty. We need to principally study the rare and extreme events in order to figure out common ones. There are two possible ways. The first is to rule out the extraordinary and focus on the "normal." Leave aside the "outliers" and study ordinary cases. The second approach is to consider that in order to understand a phenomenon, one needs to first consider the extremes; particularly if, they carry an extraordinary cumulative effect. I don't care about the usual/normal. If you

want to get an idea of your friend's temperament, ethics, and personal elegance, you need to look at him under the tests of severe circumstances, not under the regular rosy glow of daily life. Can you assess the danger a criminal poses by examining only what he does on an ordinary day? Indeed the normal is often irrelevant. Almost everything in social life is produced by rare but consequential shocks and jumps; all the while almost everything studied about social life focuses on the "normal," particularly with "bell curve" methods of inference that tell you close to nothing. Why? Because the bell curve ignores large deviations, cannot handle them, yet makes us confident that we have tamed uncertainty. I call it, the Great Intellectual Fraud.

Bottom Line: I make a claim, that our world is dominated by the extreme and the very improbable—and all the while we spend our time engaged in small talk, focusing on the known, and the repeated. This implies not to treat extreme event as an exception to be pushed under the rug. What you don't know is far more relevant than what you do know. 🌐

Kolla Raja Sekhar (IPG-2011) is currently working as Cyber Security Consultant at Deloitte India.





GAURAV YADAV
IPG-2011

CLOUD IS NOT THE FUTURE 02 IT'S THE PRESENT

If you are still among the herd of people who think that cloud is the next big thing, please wake up. Cloud has taken over the entire software sector and everything you know of. From Netflix to Pokemon GO, everything is using cloud as an infrastructure. Even this article I am writing is using one of those cloud services, Google docs. So what actually is cloud and infrastructure?

Cloud can be termed as the set of services that you use and is hosted by someone else at some other place or places. These services can be Software like Google docs, Infrastructure like AWS, or platform like AWS RDS or Heroku. Here we will be talking more about Infra and platform instead of software as a service. You must be thinking if we can do it on our own machines then why cloud? Cloud is used because it has advantages like it requires no wire management, power supply, doesn't have hardware issues or networking problems. Everything is taken care by the cloud providers. Next, it can scale like crazy. If you want 100 machines, you can spawn them in time no less than 10 minutes. No need of buying new hardware for scaling up or no need to think of what to do of the hardware when you scale down. It saves you money by providing you with models like

'pay for what you use'. It saves you time by provisioning everything without you have to interrupt.

Now you must be thinking how machines are useful if there is nothing configured in them. You can't configure everything in all the 100 machines one by one. For that we have solutions like puppet, chef. These tools install everything you need in your environment to run your desired application or server.

Do you know about containers? You must have faced an issue when your friends say that the code is working fine in their laptop, there must be something wrong with yours. To tackle this problem of inconsistency in environment, we use containers. A container image is a lightweight, stand-alone, executable package of a piece of software that includes everything needed to run the application: code, runtime, system tools, system libraries, settings. Yes everything it needs to run the it. It only uses those parts of the OS that are required. Running applications have minimum requirement.

How do they help?

You can run many containers in one machine and thus utilize maximum resources. How you can utilize more resources? Lets say you have 3 apps which use 1 GB each and almost no CPU at all. If you run all apps in

standalone machines you may not utilize all the resources because CPU is not utilized in all three. But if you run 3 containers in one machine for each application you can save resources on disk and cpu.

Now lets see the tools you can use for infrastructure.

Since this article is for college students the tools mentioned here might be a tough to use. I am mentioning these tools and terminologies just to give you a hint of things and how they work. So that if you want to work with these things you can at least know few things to start with.

Now lets see some tools that can be use to build a great infrastructure around cloud. Please keep in mind that these will be infra that you can use to deploy your apps.

Cloud providers:

AWS, Digital Ocean, Microsoft Azure and Google Cloud.

Configuration Tools to install dependencies on your machines:

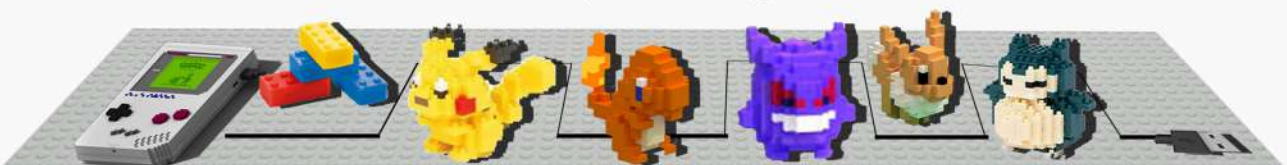
Puppet, Chef, Ansible and Salt could be good choice

Continuous Integration and Build system:

Jenkins, Travis

Containers:

Docker



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Container hubs or repositories:

Dockerhub, artifactory.

Orchestration for containers:

Swarm, Kubernetes, Mesos

Code version:

You can host your own gitlab.

How all of these work together in one application? You write code and write a file for containerizing it. Mostly a Dockerfile. You also write a Jenkins file which will make a build for you and run test cases.

files you push the docker After writing code and these images created in this process to artifactory or docker hub or any other repository.

Now you can run these containerized applications on different AWS machines using either Kubernetes, Swarm or Mesos.

This is how you can create a distributed infrastructure on cloud and use it to deploy applications.

Warning[For college students]:

The article is just to give you a hint and introduce the terms that you can use to start if you want to work in this field. Please don't get demotivated if you don't understand anything. You are beginner and if you are aware of the terms like AWS, git or google cloud. Trust me you are doing good. 🍕

Gaurav Yadav (IPG-2011) is presently working as Platform Engineer at Olacabs



KNOW MORE ABOUT CLOUD

- The cloud computing market is projected to reach \$106 billion by 2017.

This represents a 30% growth rate from 2013. This is especially stark when you take into account that the entire enterprise IT industry is only expected to experience a 5% growth rate between 2013 and 2018. Additionally, experts project that by 2018, 59% of all of the cloud's workload will be the result of Software-as-a-Service This represents a 41% increase since 2013.

- 80% of companies that adopt the cloud see improvements within their IT departments within six months. These improvements were generally in the areas of efficiency, quality and security. Additionally, moving to the cloud helped these companies save money, cut costs and use staff more efficiently. After adopting the cloud, upwards of 90% of IT decision makers saw marked improvements in at least one area of the IT department.

- Banking produces the most activity within the cloud.

This is due to the introduction of widespread mobile banking services in 2013. Additionally, the rise of crowdfunding services and money management services like PayPal have grown, driving the act of paying virtually for goods through the roof. With the rising popularity of virtual currencies like Bitcoin, this trend of cloud computing for banking is only projected to continue.





JUHI TIWARI
IPG-2016

CONNECTING THE DOTS

04

A year before, I started off a journey of 350 km with my parents in a small white estilo, feeling the winds gushing through my ears, completely scared of the destination. I surely didn't want to go back home as I always wanted to fly in chase of my dreams. But then I didn't want to reach the destination as I had always been a misfit—"missed fitting" in new situations and environments. Somehow the journey was what I never wanted to end. The roads, trees, sandy hills, people in their colorful attires was all that I wanted to see. Alas! Google Maps showed we had reached the destination as the view of the main gate came into sight. I so wanted to go back to the roads, trees and hills! I apprehensively let go off my parents as they left me at the hostel as I knew I was again going to be a misfit.

And I proved myself correct! I wasn't doing very well with the new faces. It wasn't about the place. Nor was it about the people. It was all so fancy. You had people way above you. You had people below you. You had people from the entire country. Guitarists, singers, dancers, artists, coders, you name it you had it. For a misfit like me it was all so intimidating. I slowly tried talking to a bunch

between all these amazing people, but failed. Most people would run to their chat-boxes ready to make friends and have a taste of college life fun. It took me over a year to even imagine reciprocating someone's initiation properly. Along with all this, I didn't know what I was doing with myself. There were so many fields to explore, the feeling of trying out every possible area interested me and yet not one field could hold me. My marks were not coming out to be what I thought my parents expected from me. And then I lost a couple of friends, the only ones with whom my note struck a bit. I was driving aimlessly through a desert searching for something that never appeared.

So I went into my room, sketched my heart out on a wall and realized that I could not find my wantings because I was too much inside me. I could not see beyond myself. I realized it was time to slow things down. I took up a skill that deeply interested me—android, and focused on it. I still kept trying my hands as my inquisitive mind would feed upon it but I made sure I didn't hop. I left chasing marks and instead focused on what my parents actually expected of me—doing what I loved

full dedication without any thought to results. I left making through the people, instead I tried making my own. In the first oratory event of AASF when I wanted to make a way through the people, I couldn't shape my ideas and didn't perform well according to my expectation. When I realized it was me who had to make my own way, every event developed satisfaction in me, whatever the results may be. I made an amazing friend, who accepted my misfits. I met 3 fabulous persons with whom I share my part of parties, jokes, heated arguments but above all understanding and I met a family worth making my college life special. When everything felt random and disconnected—when my greater purpose was not obvious—it was time to sit down and do the work. To peel away the layers to find the dots. They were there all along, as they are for each of us. If only we wouldn't pave them over with messages of "I'm a failure" because even at the moment of your failure, you are beautiful. You don't know it yet but you have the ability to reinvent yourself, endlessly. That's your beauty. We all encounter transitions in our lives when we must struggle to make sense of the dots of our past. We make decisions to



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either wallow in their disarray, sweep them into the dustbin and start over, or carefully arrange them into some semblance of order. And there is order if we sharpen our pencils and do the work- the work of crafting our story.

We connect the dots lest we wander and suffer. They consist of our core values, scattered

with the breadcrumb trail of our decisions, a sprinkling of our hope and trust for what is possible, bound together by a thick black line of acceptance for what we cannot change. There comes a point when we choose to no longer suffer with the regret of our past and to brush away the dust to find lessons. Then we move forward.

That is the work. That is what you have to do now and nothing else.

After all, as Steve Jobs said – You can't connect the dots looking forward; you can only connect them looking backwards. So you have to believe that the dots will somehow connect in the future. 🍷



अधूरा पन्ना

शुभम भट्टाचार्या
IPG-2016



कुछ लोग कब आपकी जिन्दगी के अधूरे पन्ने पूरे कर जाते हैं..
उनकी अहमियत उनके होने भर से पता सी चल जाती है..
कभी जिनका जिक्र तक न होता था बातों में..
अब उनके किस्से भर रात गुजर जाते हैं..
अनजान थे जब एक दूसरे को जाना..
फिर तूने किसी की अनजाने में याद थी दिलाई..
तूने बताया भी नहीं.. मैंने पूछना भी न सही समझा..
कैसे और कब.. तू जिन्दगी के मुरझाये फूलों में है बहार लायी..
लिखी हुई उस आधी कहानी को कब तू लिखने लगी..
मुझे तो इस बात का इल्म तक न था..
गुस्माखी माफ हो..पर स्याही तो मेरी थी..लेख भी तो मेरे होने चाहिए..
पुरानी कहानी को उसी स्याही से इतना खूबसूरत लिख सकते थे..
इसका उसमे जिक्र तक नहीं था..
उस पन्ने पे मेरी नजर में बस अब तेरा ही जिक्र थाकू
क्योकि इतने नजदीक थी मेरे दिल के तू..
चंद पलों की मुलाकातों ने लम्बी बातों का मोड ले लिया था..
अब तो बिना तेरे जिक्र के रातों की नींद भी फनाह थी इन आंखों से..



ABHISHAR V7.0/IIITM_STREET



MITHILESH
KUMAR
IPG-2005

He was standing at the crossroads, thinking on feet. He fell down on his knees and murmured in the betwixt and between.

“Will the going down sun rise again?”

Not long ago, he was everywhere but not here. He was there at every family function. He was the first person to reach on time at his friends’ occasions. He was first go-to person for his ‘special’ friends’ needs – from napkin to news feeds. He was an omnipresent Wi-Fi signal with the strength of Hercules and kept multiple devices connected.

For him, crossroads offered opportunities to multitask and self-inflicted multi-responsibilities. His confidants said and he believed that his aura of concerted altruism offered a slice of growth to his life. Today, he was standing again at the crossroads, trying to find a way in the maze. He was there for his family and friends, so they found a crafted cushion to step up. Now, he felt like a worn and torn cushion that didn’t offer the same fluffiness and comfort, and had become an extra bed in the house for uninvited guests.

Today, he was on his knee, trying to assess the knee jerking bewilderment stimulated by his family, friends and significant others. In this melee, he was struggling and his nimbus disjointedly propelling succinct thoughts.

“Am I the protagonist, the central character of my story who kindle all the characters together those eat my footage?”

“Will I always have to gainsay myself for others’ gain?”

“I tried to flag a ride and I became invisible, no one saw me and everybody passed me by.”

Thoughts over, knee stretched, he fell apart. Eye closed, head down, ankles took over. He was perfectly in ‘Balasana’. Mind, body and soul – together all making an arrow in an effort to get something out from the earth below the crossroads.

All aligned. He moved into the world of supernatural spirits, between the worlds at the crossroads.

The bookkeeper ghost asked, “Why are you here? Are you the one with unfulfilled desires or the one who ran away from his responsibilities?”

He replied, “No, no! I am the one with wing and sky but

everyone used my wings to explore their skies and I didn’t get chance to fly in the infinite. I hovered on the same tree like entrapped birds of lone tree in the midst of concrete jungle.”

The ghost giggled, “You are no different than other confused ghosts who tried to become roots, stem and leaves in one life and ended up being neither here nor there.”

“First try to find what do you want to become. If you want to become roots for others, then don’t hold the leaves’ desires and craving for sunlight.”

“Go find the purpose of your wings and seeds, you have a long flyway and impenetrable jungle to grow.”

The hauling winds at the crossroads broke his musing. He found his awakening and sang in unison with the settings of the crossroads.

“I believe in my free soul now
No more sinking down,
I can run, I can run
oh Lord! I can run...” 🎮

Mithilesh Kumar (IPG-2005) is presently working at Infosys as Senior Lead Analyst - Knowledge Services

There are two ways to go when you hit that crossroad in your life: There is the bad way, when you sort of give up, and then there is the really hard way, when you fight back.

-Matthew Perry





काफ़ी विचार करने के पश्चात मैंने लिखने हेतु 'मानवता' जैसे संवेदनशील विषय का चयन किया इसी आशा पर कि शायद मेरे लेख के चंद शब्द आधुनिकीकरण के इस बदलते परिवेश में मनुष्य को उसकी भूली बिसरी जन्मजात पहचान से पुनः मिलवा सकें।

दोस्तो, ईश्वर ने बड़े जतन से करोड़ों वर्ष पूर्व इस विशाल सृष्टि की रचना की। उसने देवताओं को जन्म दिया, वे विलास में डूब गये। दैत्यों का निर्माण किया, वे ध्वंश में लग गये। फिर उसे अनुभव हुआ कि शायद उसका सृजन कहीं न कहीं अभी अधूरा सा है। इसी राह पर पूरे मनोयोग से उसने देवों से भी अधिक दिव्य और असुरों से भी अधिक शक्ति संपन्न एक नये प्राणी को जन्म दिया, जिसका नाम था— 'मानव'। मानव या यूँ कहें ईश्वर की एक ऐसी अद्भुत कृति जिसे देख देवता भी अचंभित रह गये। व्यक्तियों से समाज बना और शनैः—शनैः स्नेह, करुणा, सहानुभूति, दया, मैत्री, त्याग, बलिदान और पारस्परिक सद्भाव की आधारशिला पर मानव ने जीवन पद्धति का निर्माण किया। इस आधारशिला के सभी तत्वों ने एक जुट हो 'मानवता' के भीतर सिमटकर मानव को उसकी जन्मजात पहचान से अवगत कराया। साधारण शब्दों में मानव हित में अपने व्यक्तिगत स्वार्थों से ऊपर उठकर एक—दूसरे के लिये जीवन समर्पित कर देने का नाम ही मनुष्यता है। कविवर गुप्त जी के शब्दों में—“यही तो पशु प्रवृत्ति है कि आप ही चरे, वही मनुष्य है कि जो मनुष्य के लिये मरे”। हजारों वर्षों पूर्व गोस्वामी तुलसीदास जी ने भी श्री रामचरितमानस में मानव की महानता का स्पष्ट शब्दों में वर्णन करते हुए ये लिखा है कि “बड़े भाग मानुस तन पावा, सुर दुर्लभ सब ग्रंथ निगावा”। परन्तु अब इसे मानवजाति का दुर्भाग्य

नहीं तो और क्या कहेंगे कि आज अपनी अहमन्यता और स्वार्थपरता से विकार ग्रस्त होता हुआ मानव पशुता के कगार पर खड़ा है जो आज अपने उदर की भूख मिटाने के लिये भले ही अन्न का प्रयोग करता हो परन्तु अपनी मानसिक भूख मिटाने के लिये मानवता का दिनोंदिन भक्षण कर रहा है। आज यदि देश के कर्णधार नेता से लेकर सामान्य जनता तक उन बलिदानियों को गिने चुने शब्दों से श्रद्धांजलि अर्पित करने का नाटक करके ही अपने कर्तव्यों की समाप्ति मान ले तो इससे बड़ा दुर्भाग्य और क्या हो सकता है। दुर्भाग्य ही है उस देश का जहाँ पश्चिमी सभ्यता के चूल्हे में अपनी मर्यादा का ईंधन जलाने वालों की कमी नहीं है। दुर्भाग्य ही है शायद उस देश का जहाँ मात्र धनवान बनने के लिये राष्ट्र की अस्मिता को चौराहे पर खड़ा करके बेचने वालों की कमी नहीं है। अरे! अमेरिका के हाथी के सांस लेने तक की आवाज हम अपने रेडियों टेलीविजन पर सुन लेते हैं पर दर्द के कराहते अपने ही पड़ोसी की चीखें हमें सुनायी नहीं देती है।

दोस्तों, एक लम्बा वक्त बीत गया जब अंग्रेज भारत में आए थे। प्राच्य सभ्यता पाश्चात्य सभ्यता से घुली मिली है। भोगवाद ने त्यागवाद पर अपना प्रभाव डाला और अंग्रेजी संस्कृति घुमड़ कर पराजित भारतीय मनीषा पर बरसने लगी। भारतीय छात्र अंग्रेजी रंग में रंग कर विदेशी सभ्यता का अनुकरण करने में गौरव की अनुभूति करने लगे। परन्तु मैं स्पष्ट शब्दों में यह कहना चाहूँगी कि इस मार्ग पर हमने अपना सर्वस्व देकर भी बहुत कम पाया है। कविवर श्यामशरण पंत जी के शब्दों में—

“यदि श्रम कर उदर न भर पाए,
मानुस तन वसन न दे पाए,
यदि एक राष्ट्र में रह न सकें,
अपनी ही भाषा कह न सकें,

अपनी ही संस्कृति गह न सके,
यदि मानस महा मलीन हुए,
फिर हम कैसे स्वाधीन हुए”
दूसरी ओर यदि बात की जाए हमारे राजनेताओं की तो उन्होंने भी इस देश को भंवर में डुबाने के उद्देश्य से पतवारे फेंक दी हैं। मैं पूछती हूँ इन नेताओं से कि—

“यदि भंवर दिखाना ही था माँ को, क्यूँ बापू बलिदान हुए,
क्यूँ शहीद हुआ वो भगत सिंह, बिसमिल सुखदेव के प्राण गये,
क्यूँ चमकी झांसी की रानी और प्राण तजे इस माटी में,
होना था जब फिर नरसिंहार अपनी कश्मीर की घाटी में,
क्यूँ घायल होता रहा हिमालय, क्यूँ भारत माता सहती रही,
क्या देख स्वर्ग से माँ की दिशा आजादी की छाती नहीं फटी?”

परन्तु कुर्सी की मृग मरीचिका के पीछे भागने वाले इन राजनेताओं को ऐसी भावनाओं से जैसे कोई लेना देना नहीं है। और तो और हमारी भारतीय जनता तो दिन प्रतिदिन ऐसे व्यक्तियों का गण बनती जा रही है जो अपने कर्मक्षेत्र में धृतराष्ट्र बनकर जीने में परम् लक्ष्य की प्राप्ति समझते हैं। ऐसा प्रतीत होता है कि इस यांत्रिक युग में मानव जीवन दिन प्रतिदिन यंत्र की भांति सीमित होता जा रहा है। यंत्र का भी भला कोई कार्य होता है? चलते-चलते गिर जाना ही उसकी इष्ट है। समझ ही नहीं आता जीवन है क्या? क्या करने आए थे और क्या कर डाला? बस जब-जब आंख खुली और समझने लायक हुए तो एक ही उद्देश्य सामने दिखा—अपना स्वार्थ साधो और निकलते बने यहाँ से, राष्ट्र हमें कुछ देने नहीं आ रहा, मिटाने दो राष्ट्र को बस स्वयं को देखो। इसी सांस्कृतिक



विघटन की वजह से शायद आज हमारा भारतवर्ष एक ऐसे कगार पर आकर खड़ा हो गया है जहाँ से कोई भी शत्रु राष्ट्र बड़ी ही आसानी से इसे चोट पहुँचा कर निकल जाता है और हमारे राष्ट्र का शासन चलाने वाले हमारे नेतागण सिद्धान्तों की माला हाथ में लेकर अहिंसावाद बन जाते हैं। चूँकि शायद इसी अहिंसावाद की आड़ में कहीं न कहीं उनके निजी स्वार्थों की भी पूर्ति होती है। इसका ज्वलंत उदाहरण है कि— हमारे भारतीय सैनिकों को आदेश है कि बेशुमार बेगुनाहों की हत्या करने वाला कोई दुर्दांत आतंकवादी यदि पकड़ा जाता है तो उसे मारो मत उसे जेल में डाल दो ताकि फिर किसी नेता के बेटे का अपहरण हो और उस एक जान को बचाने के लिए लाखों मासूमों की हत्या करने हेतु पुनः उस दुर्दांत आतंकवादी

को रिहा किया जा सके। अगर यही दे रहे हैं हमारे सिद्धान्त हमें तो बदल जाने चाहिए ये सिद्धान्त। आखिर कब आएगी क्रांति, कब जागेगा भारत, कौन जगाएगा भारत को? यदि अपनी स्मरण शक्ति पर जरा जोर डाले तो इसी देश में एक समय वो था जब सुरा और सुंदरी के उन्माद में डूबें विलासी राजाओं के हाथों की कठपुतलीयाँ बनकर रीतिकालीन कवियों ने नारी के अंग प्रत्यंग का बेढंग चित्रण कर अपनी वाणी को वासना की वाहिता बना रखा था। उसी समय वीररस के समर्थ महाकवि भूषण ने भारत के जागरण का मन में संकल्प लिया और देखते-देखते ही भूषण के सिंघनाद से सोया हुआ भारत जाग उठा। क्या समय, परिस्थितियाँ, धरती और मानवता आपसे फिर से कोई भूषण नहीं मांग रही? जहाँ तक मेरा व्यक्तिगत विचार है शिक्षा का

मतलब सिर्फ ये नहीं कि पढ़े लिखे एक अच्छा सा सामाजिक स्तर बनाया और हम एक पूर्ण मनुष्य हो गये। इतनी महँगी शिक्षा प्राप्त करने के बाद भी यदि राष्ट्र भक्ति का पाठ पढ़ना भूल गये तो शायद व्यर्थ ही तो है हमारी शिक्षा।

“जीवन की माया छोड़ मूर्ख, जीवन पानी सा बहता है।

मिट जाते सब झूठे वैभव, बस नाम धरा पर रहता है”

यदि मेरे इस लेख से आपके मन में जागरण की थोड़ी भी चिंगारी उत्पन्न हुई हो तो इस चिंगारी से मशाल तक के सफर को तय करने का मेरे साथ मन में संकल्प लेते हुए मानवता के पथ पर पुनः एक कदम बढ़ाने का प्रयास अवश्य करें। इन्हीं शब्दों के साथ यहीं मुझे कलम को विराम देने की अनुमति प्रदान करें। 🙏

SHE WAS STILL IN TEARS

Abhishek Pratap Singh
IMG-2017



There lived an innocent girl,
Her innocence more precious
than a pearl,
Her days were most cheerful,
Her nights went the most
peaceful.

The most beautiful one, in the
whole village,
Happiness of everyone's eyes,
never had she cried.
But alas, one day it saw a
pillage,
She was taken away, a part of
her died.

A small lad she was,
Stood bravely 'gainst them all,

She fought her battles hard,
But was let down by her
sword.

Even today she is innocent,
Her innocence still more pre-
cious than a pearl,
But her days are no longer
cheerful,
And her nights no longer
peaceful.

She cries every night,
Remembering how she was
laid down with a chain,
Tears of agony, tears of pain.
Tears of disappointment, tears
of shame.

The cost has been well paid,
It's her freedom and her faith
which is lost.

Fault her was none,
Still she was shunned.
Nobody now hears her joyous
voice,
as if they gave her any other
choice.

Her eyes were always moist,
She used to cry somewhere
alone, always quiet,
She was forced to face the
worst of her fears,
The last anybody saw her, she
was still in tears.



AASF HIGHLIGHTS

2004

Paper presentation contest, 'Abhigyanam' renamed as 'Abhigyan'

2012

Abhishar volume-1 launched, online programming contest for first years

2005

Hardware Workshop

2014

Composition de'l image, Robotics workshop, Hardware workshop reintroduced

2015

Android hIQ, website launch

2008

Logo of AASF, Overnight software contest

2006

Renamed as IIITM's Students' Forum

2011

Googly, sports quiz, Aakriti

2013

AASF-ICPC

2009

"Pragyanki"-magazine of AASF

2016

Hackathon

2003

Inauguration of IETE Students's Forum on 9th Sept, 2003

2007

AASF conceptualised "coalescence of knowledge and skills"

2010

German language session, android, flash, JAM

The more you have of it, the less you see.
What is it?

Who makes it, has no need of it.
Who buys it, has no use of it.
Who uses it cannot see or feel it.
What is it?

I disappear as soon as you call my name.
Who am I?

If it is raining at 12 am, could you expect sunny weather in 72 hours?

You see a kid sitting, but you can't sit at his place, even if he moves away.
Where is he sitting?

Where do you see the number 2 but call it 10?

1, 2, 24, 4, 77,
3, 7, __?



PUZZLE ZONE





Dear Reader, on the off chance that you have unearthed this article from numerous articles in this magazine, and in the event that you will give it a full read, may I enlighten you with some of my contemplations. Maybe it will be too profound of fuming. So here I start.

I figure the majority of you are well aware of the social media. It's nearly impossible to discover a person who isn't. Every one of you has Facebook, Instagram and Whatsapp running on your gadgets for a large portion of the day. I don't especially repudiate online networking., but I really need to rant it a little for what it has done to everyone of us including me. I am no saint, I am equally addicted to it. I am going to write about how really web-based social networking is removing us from the genuine significance of being "social". With each unaccepted friend request to a person, we feel like a disappointment. Vexation is the thing that we feel, specifically, we begin reviling the individual. It has occurred with every one of us. Wearing covers to demonstrate the world that our life is astounding, everybody really does that. But only we know how deep we are surrounded by unique problems we have. Lots of companions on

Facebook, however, we just can depend on a couple of them. Not those we play around with, rather the individuals who will unquestionably enable and support us in our harsh times.

With each bleep on our smart-phone, we rapidly observe the screen that somebody may have messaged us, just to discover that it is possible that it is a Whatsapp group message or message from the beloved service provider. Everybody is happy in their lives, right? That random classmate simply posted a pic with a "beautiful" collegemate, and I, then again, am sufficiently shy to try and go and say "Hello" to the one I truly like. Old friends are going to exotic Australian and the United States trips, on the other hand, I am sitting at home exhausted and looking over my Facebook screen in absolute boredom. We are a generation who like to put filters on everything, social networking has shown us this. You need to indicate others that you are cheerful to be socially acknowledged in life.

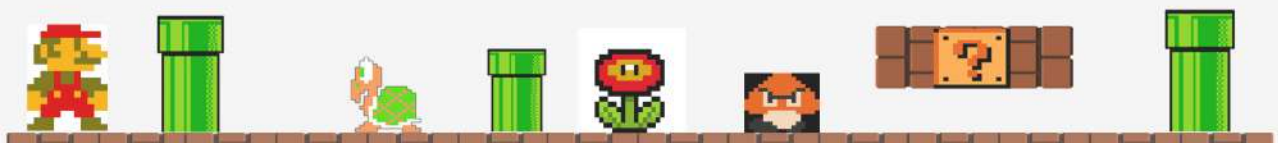
Couples going on dates together, still not investing energy with each other rather admiring their screens most of the times. A date literally means to get to know each other well, however you are rather giving

more significance to the screen than the other person you are with.

We calculate our acceptance by the count of likes and comments. The person who frequently gets more likes is dependably been announced as the champ, not a prize is given, but it is indeed a social morale boost. Don't we check regularly to count the likes whenever we post a new picture? We are cats, all things considered, putting on a show to be "The Lion" on the online networking.

Every "somebody liked your post" notification gets us a surge of dopamine, this dopamine is a similar substance which influences us to feel great when we smoke or drink. On the whole, it is exceedingly addictive. One does not need to know the skill of starting a conversation before going on a date. Gone are the days when getting the number of some person was more than half the task done. Simply swipe right, got a match, kid I am such a stud. Today, we don't even know the definition of what a meaningful relationship is all about.

The past limitlessness feeling of viewing a dusk or getting depleted by the rain shower is the thing that I profoundly miss today. The wonderful moments you have, by spending "real"



time with the people you really care. God, I need to eat my meals, not click them. I need to lie over the wet grass, not gaze unendingly at my blazing screen. I need to cycle in the breeze not click selfies twelve times each day. Whenever I go to a place, I want to absorb it instead of clicking thousands of photos. One or two photos are fine, you know that too. When I meet a

person for the first time, and we share numbers, I don't want to talk on WhatsApp, rather, I need to call to simply request a future meet. The best memories are created with hugs and talks, not chats and comment mentions. It's easier to pretend to be happy than to be really happy. It's easy to roast each other with social commentary just for being part of the crowd. A meal is best

enjoyed without the trouble of a message or a notification, with the true emotional connection with friends and the people you love.

I wish a day comes soon when our devices have a low battery, probably it would take us a step closer to humanity.

All of us could have lived better lives if we had hands to hold rather than keys to press. 🎮

EVERYTHING'S BEAUTIFUL

Shraddha Sachan
IPG-2015



Why do you hunt rose, in a garden full of flowers?
Look around, there is one without thorns so tough.
Why visit 7 wonders, when there is a globe to explore,
Take a tour, a place full of peace exists far off.
There is always a center of attraction, true
But you forget, corners exist too.
Beauty resides in the heart, is what you were taught,
Skin is all that matters, is what you finally brought?
But who am I to preach about this
When I too love roses, beauty indeed is a bliss!
Once a moon, smelling the purple sky,
Now just a burned coal, and choking ashes that come by.
Your love was deep, so are my scars
Your love was infinite, so is my pain
Will you look at my face, all the traces gone,
And make out the smile hiding my moan
Will you look into my eyes, with lashes burned?
And try to see the spark or dreams, once churned
You loved me, I didn't
Now you don't and no one ever will.



13 AHH, AUTO-SEGREGATION? LET'S SKIP THIS ONE

MANISH DAS
MOHAPATRA
IPG-2014



It is fairly perceivable to think, a country spanning over 3. million square km would be cleaved into various states with diverse culture, language and religion. Now, spare me a minute of your life, and deem upon the possibility of a mere hostel built over a few thousand square feet of real estate, to comfort and shelter aspiring minds, suffering the same fate of getting butchered into parts, regions and opinions. A hostel whose floors are named after groups, lobbies named by language, wings named with characters.

I am tired of reading articles about our college's beautiful campus, sports facility, butterfly conservatory and swimming pool and sometimes even about the wonderful 4 years that people spend here. I mean come on, really? If you are reading this, then I am sure the magazine's editors are smart enough to know what is more important.

Sometimes, it's hard to have these conversations without seemingly pointing a finger. But, as this is a sensitive matter, I will try my best to be unbiased, practical and to hit the nail, right where it matters. There is no denying that every national institute is a diverse campus. So is ours. The demographics of the student body is

normally distributed where all cultures are mixed and people are supposed to learn from and about each other. All this diversity, goes to waste in the stratification of friend groups in the campus. In this article I discuss the apparent lack of benefits of diversity in an environment that could potentially be teeming with interactions among a varying student population. This issue is called Auto-Segregation.

Many of my mates don't want to admit it, don't want to talk about it, but they are aware and so am I. Segregation is still around. Sometimes by design, sometimes by choice, sometimes by obligation and sometimes by fear.

By now, if this article in any way is resonating with you, then you probably have a clear idea of what is being interpreted. And you are right. Most of you would be wondering, why of all the people, this person is talking about these things. Believe me, I know, even I am guilty.

Self-segregation in roommate selection, classroom sitting and even cafeteria tables is unfortunately common, but I would never think to intervene in those cases. My decision about whether to do so at that instance comes down to one question. Since these things

happened right in front of me, on my watch, did I have a moral obligation to say something, to do something? I am still searching for an answer. At that moment, I didn't have time to process all these conflicting thoughts. It is always noticeable to me and uncomfortable to witness. But did anyone else feel the same way? It is hard to tell. I still feel conflicted about what I should have done in that moment. Part of me wishes, I had intervened although I don't curse myself too much over my choice. It's always easier to craft the perfect response in hindsight. Right?

I never asked anyone on that day or any day for that matter. No one brought it up in person, in chats or even in arguments. Somehow I feel people think it's obvious and there is no explication to this inclining behaviour of people. Everyone is just pledged to the myth that this kind of common behaviour is perceptible and palpable. Is it? Really, people?

Next time, you hear someone say something like "Bihar lobby", "AP floor" or "Rajasthan Guys", just think, if it is really that inevitable or are we trying hard to make it look so. Fine, I get it. There is no blaringly noxious or prejudicial effect of having a healthy homogenous friend group. In fact



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segregation is beneficial for helping one blend in and adjust to the present culture and college life. It results in a confident individual who has trust and a connection with the people he lives with. It gives rise to more intimate relationships. But the pivotal point of this matter is segregating yourself impedes you from being exposed first hand to all that college life has to offer. One gets limited by their own fear of getting out of their “Comfort Zone”.

You are closing off many opportunities, bottlenecking the number of wonderful interactions and devoiding yourself from being a better social being. As Boyd once said, “We’re passionate about technology because we are passionate about people and information and they go hand in hand.” But are we really that passionate about information and people if we purposely limit our access by self-segregating ourselves and adhering to the familiar?

Personally, I love people. I believe in the good in people and I give them a lot of chances. Every time I talk to a new person, I become wiser, I learn a bit more, I live a bit more. And some of these conversations get engraved in my mind forever. You just have to feel the magic. You can’t see it.

Believe me, this world is filled with nice people. If you still can’t find one, be one. 🤖

DO YOU KNOW?

- At the census 2001, out of 1028 million population, little over 827 million (80.5%) have returned themselves as followers of Hindu religion, 138 million (13.4%) as Muslims or the followers of Islam, 24 million (2.3%) as Christians, 19 million (1.9%) as Sikh, 8 million (0.80%) as Buddhists and 4 million (0.4%) are Jain.

- There are close to 111 various dance forms in the country like Kuchipudi, Kolattam, Bardo Chham, Bihu dance, Jumur Nach, Bagurumba, Ali Ai Ligang, Jharkhand, Chhattisgarh, Panthi, Raut Nacha, Dashavatara, Dekhni, Dhalo, Dhangar, Fugdi, Ghodemodni, Goff. Apart from these 111 dance forms there are several other unofficial dance forms in various parts of the country.

- According to 2011 census of India, there were close to 1,635 languages being spoken across the length and breadth of the country. Majority of these languages can be identified as dialects.

- India has the second highest population in the world, next to China. The Indian sub-continent is not inhabited by people from single ethnicity, but has seen a series of migrations from all across the globe.

- The Taj Mahal is one of the most famous places in the world, but India has 31 other UNESCO World Heritage Sites within its borders. The US, by comparison, has 23.



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लोग—एक ऐसा शब्द जिसकी फिक्र हमें परिवार के सदस्यों से ज्यादा होती है। वास्तव में हमारे जीवन का आरम्भ ही इस बात से होता है कि 'लोग क्या कहेंगे?'

यह प्रश्न हर व्यक्ति के मस्तिष्क में कभी न कभी तो आता ही है। अब प्रश्न यह है कि इस प्रश्न का उत्तर ढूँढने बैठेंगे या आगे बढ़ेंगे, लोगों की बातें हम पर इतनी प्रभावी क्यों हैं? इसका उत्तर आप स्वयं को देने का प्रयास करें।

'लोग' समुदाय के सदस्य आश्चर्यजनक शक्तियों के स्वामी होते हैं जैसे कहीं भी प्रकट होना। जब भी आप उनकी तरह नहीं दिखते या पहले से बनी हुई पगडण्डी से हट कर चलने की कोशिश करते हैं ये तुरन्त प्रकट होकर अपनी जिम्मेदारी का निर्वाह करते हैं। जिम्मेदारी, आपकी आलोचना की, जिम्मेदारी आपको निरंतर ये बताने की कि आप कुछ गलत कर रहे हैं जो वास्तव में गलत नहीं, अलग है। प्रकट होने के साथ-साथ इनके पास अदृश्य होने की शक्ति भी है। अधिकतर लोग आपकी विपत्ति में आपका साथ नहीं देंगे।

आपके संपन्न दिनों में आप लोगों से घिरे होंगे पर परिस्थितियाँ बदलते ही आप खुद को एक विरान जंगल में पाते हैं। असल में ये इतने पास है कि आपकी हर खुशी में शामिल होने का पूरा हक है इन्हें पर जो ये आपको छोड़ दे तो इतने पास नहीं कि आप शिकायत करें।

आप पढ़ कर सोच रहे होंगे कि 'हाँ सच बात है'। परन्तु बात यह है कि 'लोग' समुदाय की सदस्यता हम सबने ले रखी है। सिर्फ हमारे मित्रों, परिवार के व्यक्तियों और प्रियजनों पर यह लागू नहीं होती।

पर ऐसा बिल्कुल भी नहीं है कि हम सिर्फ लोगों से ही घिरे हुए हैं। हमारे पास मित्र भी हैं। 'मित्र' लोगों कि वह श्रेणी है जो आपकी आलोचना नहीं करती बल्कि आपके साथ उन कमियों को दूर करने में मदद करते हैं। अगर ये दुनिया जंगल है तो हर तरह की चीजें मिलेगी। कैक्टस भी यहीं हैं और गुलाब भी। जरूरत है तो बस ढूँढने की। इस जंगल में वो दूर जो एक हरा पेड़ है न? जिसके नीचे आप कुछ देर सुकून से बैठ पाएंगे बस आपका दोस्त वही है।

जो एक तालाब है, आपका दोस्त वही है। ये जो ठंडी सी हवा आपके माथे पर आकर लग रही है और कुछ पलों के लिए आप अपनी मुश्किलें भूल जाते हैं बस आपका दोस्त वही है।

लोग कुछ न कुछ तो कहेंगे ही। अब ये निर्णय तो आप ही करेंगे कि किन लोगों की सोच आपको प्रभावित करेगी।

मैं यह लिख रही हूँ इसका अर्थ यह बिल्कुल भी नहीं है कि मैं लोगों में नहीं आती, पर मैं धीरे-धीरे ये सदस्यता छोड़ रही हूँ क्योंकि जो व्यवहार मुझे उचित नहीं लगता वह मैं दूसरों के साथ नहीं कर सकती। किसी भी व्यक्ति को देखकर एक दृष्टि में उसका मूल्यांकन नहीं कर सकती और आपसे एक आशा करती हूँ कि अब से आप अपने सपनों को, अपने विचारों को 'लोग क्या कहेंगे' नाम के लिफाफे में बंद करके तकिये के नीचे रखकर नहीं सोयेंगे।

धन्यवाद! 🙏

You have to grow from the inside out. None can teach you, none can make you spiritual.

There is no other teacher but your own soul.

Arise, awake and do not stop until the goal is reached.

We are what our thoughts have made us; so take care about what you think. Words are secondary. Thoughts live; they travel far.

All the powers in the universe are already ours. It is we who have put our hands before our eyes and cry that it is dark.

Truth can be stated in a thousand different ways, yet each one can be true.

-Swami Vivekanand



ABHISHAR AND ME

Sometimes when I am bored, I pick up Abhishar for light reading. Gradually I get immersed in the vast ocean that is contained in that little small journal. Seniors telling about their experiences, juniors talking about their expectations, some random facts in the corner and few pieces of information from the technical gurus of the institute. It provides a kind of feeling which is difficult to express in words. Thanks to team AASF.

-Aniket Gupta

Helping us from being a tutee to a tutor, hesitant to a confident and a participant to a problem setter, AASF is indeed a journey to learn, deliver and evolve. I congratulate the whole AASF team for their unmatched efforts in making the seventh volume of Abhishar a success.

-Mahima Gupta

AASF has always encouraged everyone to explore all possible options before deciding on one particular field. This had always kept me going and helping me learn new and interesting technologies. Great efforts keep it up.

-Arvind Rachuri

Since its inception AASF has played a significant role in enriching the college experience of the student by providing us the much needed exposure and indulging us in a number of activities that helps in our all round development. Abhishar is a great initiative through which we can express our interest and views about life universe and everything. The quality of content as well as presentation improves with every edition. Great work team AASF.

-Hardik Khandelwal

When I first took baby steps into this institute, I was just another scared little kid. AASF was the guiding hand, the support I needed to realise my own potential and present myself with confidence. Be it the new technical avenues they introduced to us or the challenging but fun literary events. All of that felt taxing back then, but it truly was of great value as the sessions and events helped me bring out my creativity. Building a strong skillset is great, but build a personality first, AASF helps you do that. Cheers!

-Sneha Susarla



“Any man who reads too much and uses his brain too little falls into lazy habits of thinking.”

The 20th century produced a man who thought Newtonian Mechanics was not enough to solve the everlasting mysteries of light that whether it has a wave nature or particle nature. The name of course is ALBERT EINSTEIN. Albert Einstein produced theories that changed the way the world used to think. He also got noble prize for Photo Electric Effect. But his greatest work is considered to be Theory of Relativity. Many Physicists claimed that this theory was so impeccable that even Noble Prize was a small recognition.

In this article, I would share one of the least known contributions of Albert Einstein and that is his role in helping end World War 2. We all know how the World War 2 ended. U.S. dropped nuclear bomb on two cities Hiroshima and Nagasaki in Japan. The bomb killed 129,000 people and has never been used since then. Nuclear fission found its use not just in producing electricity. Few hundred nuclear bombs could

wipe out everything (even single bacteria) from the planet.

Einstein’s earliest political activity came during the First World War, when he was a professor in Berlin. Sickened by what he saw as the waste of human lives, he became involved in the anti-war demonstration. In the years leading up to World War 2, many scientists, including 40% of all European theoretical physicists escaped Germany. Einstein was amongst the most celebrated Jews due to his refusal of irrelevant religious beliefs. Nazis even offered money to kill Einstein. Due to this, he and many others like Niels Bohr and Enrico Fermi fled Germany.

In 1939, Einstein wrote a letter to president of U.S., Franklin D. Roosevelt informing that Nazis were trying to develop a bomb based on nuclear fission. Einstein told Roosevelt about how Hitler could use them to destroy rest of Europe and U.S. with the bomb. Roosevelt launched the Manhattan Project to develop bomb based on nuclear activity. Ironically, the project that was working for

U.S. government had many prominent German Physicists.

Eventually the Manhattan Project succeeded and ended the war. Meanwhile, the German Nuclear Programme, headed by Werner Heisenberg failed due to substantial miscalculation. He grossly over-estimated how much uranium was needed to sustain an explosion.

Just think for a minute, if European scientists had remained in Europe and helped Hitler in making nuclear bomb, I think, he would have destroyed half of the world right then and other half after becoming the dictator. Einstein said “The world is a dangerous place to live, not because of the people who are evil, but because of the people who don’t do anything about it.” This man has always been a great source of inspiration to me. And this real story of him always reminds me that being good at heart is always better.

Reference:

- A Brief History of Time (part-2) by Stephen Hawkins with Leonard Mlodinow
- Einstein for Everyone by Robert L. Piccioni
- Wikipedia 🌐

“Human knowledge and skills alone cannot lead humanity to a happy and dignified life. Humanity has every reason to place the proclaimers of high moral standards and values above the discoverers of objective truth.”

-Albert Einstein





SHIVANI
MANDELIYA
IPG-2014

TIME TO CHANGE THE PERCEPTION ISN'T IT??

18

Hey...

I am Shivani. Out of the 14 people who took MBA (from a batch of 125), I am one. Yes yes, you guessed it right I took MBA because I couldn't fool myself anymore that coding, development and Big Data are my cup of tea. You must be thinking, I am one of those who couldn't survive a tough thing like M.Tech and hence ended up taking an easy option i.e. MBA. My life is more fun. I won't have to give GATE. I won't be gulping down 'Geeks for Geeks'. I won't be sitting for hours in front of my laptop and submitting the codes. I won't have to study like you as I have very easy subjects, purely theoretical ones. And yeah yeah I won't have to attend classes. I will be living a life more happier and easier than yours.

What if I say that you are wrong? Yes my friend, you are wrong. First things first, you assumed a lot but that's not your fault. Read further and you will believe me.

This is what most of the people in this institute think. This is what I also used to think about the people who took MBA but I never considered them less than M.Tech people and this is not your fault actually because we believe the things we hear (generally) and develop a perception that is totally unjustified.

Even when I have 8 subjects (+1 seminar) in 3 semesters of MBA, people assume that I have more "free" time. Even if I have to give 2 exams every day during minors, you assume that I don't have to study like you during minors. Even if the MBA faculties give more attention to every student and really teach something in the class, you assume that MBA faculties know nothing. Even if MBA is much more than communication skills, you assume that a MBA student knows nothing more than making and giving presentations. Even if I have 20-25 classes per week while you have 20-22, you think that I have more free time. Even if I score good marks, you assume that my subjects are easy that's why I am scoring well. Do you even understand how much it hurts when some stupid people belittle your efforts? I guess No!!

I know why you think so. Because M.Tech packages are much more attractive than MBA's. Yeah, I know this. But that doesn't mean that MBA is a bad option as compared to M.Tech. There are many reasons behind MBA not getting higher packages. I know doing MBA from this institute is not as good as doing it from some IIM or other B-schools but that doesn't mean that MBA is not

as good as M.Tech because our faculties are dedicated and intellectual. Neither are they imbeciles nor are the students feeble-minded. Assume otherwise.

MBA curriculum is very different. It doesn't require rereading books and mugging up the facts. It is more about building a thinking. There is nothing binary here, nothing is wrong and nothing is right. Our classes are interactive and teacher tries to bring the best out of every student. And that's the reason that MBA people are not seen with bundle of notes during exams. Because we know that even if we mug up the things, we will be asked such questions which cannot be answered just by mugging the notes.

Talking about classes, yes some IPG people don't attend many classes. The reason is that they have different goals to achieve in life so they give more time to other things. There are many people in B.tech who don't attend all the classes but when some MBA people do so, they are labeled as lazy and aimless.

People assume that we are so lethargic that we chose MBA. As if choosing M.Tech is equivalent to the most ambitious decision.

It's been almost 3 and a half



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trust me I have faced a lot of people in this institute who gave me that “you know nothing” look when they came to know that I took MBA. It’s disheartening when you are looked down upon. I think all of you need to understand the facts. Rather than being judgmental, it will be wise if you think rationally. Rather than disparaging someone’s decision to take MBA, you need to understand that those who take MBA are really courageous. Because it takes a lot of

courage to leave your friends and sit in a class where almost everyone is a stranger. It takes a lot of courage to accept that your institute won’t give you the opportunity to crack a package higher than 7 or 8 lakhs. It takes a lot of courage to finally understand that your lobby mates won’t be your classmates now. And yes it really takes a lot of courage to ignore the fact that M.tech people will get a stipend of Rs. 12,400 (for those whom money matters a lot).

What I really want to say is don’t ever give someone that weird look when he/she takes MBA because trust me it really is very depressing and it hurts. My arguments may seem exaggerated to you but this is what I felt in these few months and felt the need to express what seems wrong to me.

I know I cannot control the way you think but I definitely can express the problem that exists just to reconsider the way you perceive the things. 🤖

ME AND MY MYSTERY

Shubhankar Mohan
IPG-2013



The dreams I had once,
The person I was once,
The friends I had once,
The things I cared once,
All have changed,
I have changed...

The time has passed,
Very fast,
When I look back,
I see only dark...

The person I was once, is history,
To be someone, is destiny,
How, is mystery...?



ABHISHAR V7.0/IITM_STREET



JISHNU
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MBA-2016

WOMEN, LET'S
APPRECIATE!

20

Mother, Grandmother, Aunty, Sister, Girl Friend, Miss Teacher, Homemaker, Daughter, Mother Goddess, Nurse etc.- They all are women!

I am writing this article based on my experience of two families, based in the ancient city of Gwalior in the state of Madhya Pradesh. Gwalior is a city that has witnessed the bravery of uncountable women in the past and it is the place where the famous Indian Rani, Rani Lakshmbai took her last breath.

Men and women are two sides of the same coin and the coin is our society. Both, men and women hold equal importance in the society and are not capable without each other. Constitutional provisions give stress on the equality of men and women. But, unfortunately I have a different experience to mirror! It's now the responsibility of the generation to give a justifiable answer to my experience.

Women had a very prominent role in the Vedic period. The problems that women face these days are nothing new or sudden and all these problems started back during the Post Vedic period when women were deprived of social and religious rights. They were not allowed to participate in various social and religious functions

and as a result, gradually the position of women fell down to the extent that the birth of a girl was regarded as a curse in the family! Once, there was a time when the kingdom of Maithili, having Sita as the daughter of Janaka, was full of celebration and now few intelligent people are afraid of a girl child. Are they really intelligent? Are these people at fault? Or the society that turned the affection of parents to give some gifts to their daughter in marriage into a compulsory deal called Dowry! Is it really the fact that only son can take care of their parents and not the daughter? Are the daughters less capable than the sons? Then what about the Queen of the United Kingdom and 16 Commonwealth realms, Elizabeth?

In Rigveda, there is evidence reflecting the honor and respect that women received in their homes. They had access to the highest knowledge of the Brahma. However, such an ideal and liberal attitude towards women changed with the course of time. New interpretations came in various scriptures. Women were considered inferior to men in the new scriptures. To my surprise, Buddhist monks regarded women as a source of all evils! When the representatives of a

religion regards women as a source of all evils, do you really think the common man are at fault in bracketing the opportunities of a women or by giving a low status to women when compared to males? Or the religion is at fault? Or the interpretation of religious saying is wrong? It's not only the case of one religion but it's seen often in other religions too. In most cases, interpretation of religious saying are wrongly perceived by common man and this is the root of all these problems. It is obvious that a properly educated women can only give a proper education to its children and thus a bright future. So men, be selfish, let's allow the women to get the flavor of knowledge and this will help you to meet your own expectation of a bright future for your children! Children cannot inherit their mother's caste or surname of their mother, is this right to a mother? Can this be really justified? Important decisions like pregnancy, ownership of property, and use of smart devices etc. are mostly taken by male counterpart. Financially independent women are also helpless and that's strange to believe! They start their day at the crack of dawn, and take care of the entire family, prepare their children for school,



ABHISHAR V7.0/LIFESTYLE

prepare and pack their husband's lunch, get herself ready for office, go to the public transport stand to avail the overcrowded bus/train and reach the work place on time. They have to discharge their duties equivalent to their male counterparts at work place and then on returning home they have to complete all their household works like cooking the dinner, preparing the homework of their children etc. and have to manage the same routine every new day. Sunday, holiday! Yes it's a holiday for the hardworking male only. Sunday, a day much awaited by the family and particularly the children for some special delicious food prepared by their mother. The works they do for their household are uncountable and are rarely appreciated, is this the duty of women only? Can women get tired? Don't they require some free time? The household work by women are not considered as productive work by family member and strangely even by the elderly women at home i.e. grandmother, mother in law

etc. Just think of a day without the women of the house, the mother. This invisibility of women's labor fails to get them their due weightage in the family and they are taken for granted. According to Manu, "In childhood a woman must be subject to her father, in youth to her husband and when her lord is dead, to her sons. She must never be independent". So, why not the male counterpart? Should we rename women to servicemen? Sounds rude, right?

It is seen in general that most of the times women are the convenient and easy prey of society because of their financial, mental, and social dependency. It is not only the case of an illiterate and financially dependent women but also the case of educated or uneducated employed women. Incidents like daughter in law being beaten by family member or husband himself, are some cases commonly seen in our society which are mostly in connection with dowry or failing to have a child or a boy child or sometimes by whims and fancy! Like that!

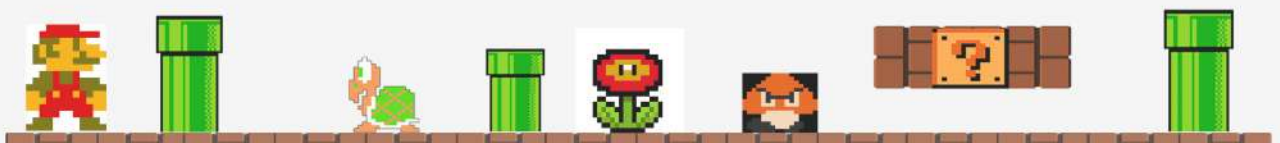
It is often a medium to extract money or property from the relatives of married women even in excess of what was already negotiated, yes negotiated, a business deal I suppose? This sometimes even leads to death of victimized weak women, yes weak! It is her fault that she is weak and that she didn't oppose strongly and failed to make them realize her importance. However, the oppression of girl child does not end here and it's a long way for a girl child from the day she starts going to school, then to college, then getting married, after marriage etc. till the last days of her life. Women's appreciation is not an automatic and spontaneous process, it requires efforts deliberately and consistently and most importantly it can be actualized only if women can understand their true value to society. Whenever women are not appreciated and respected, history has witnessed great disasters! Lots more to share but pages have limit too. Let's appreciate women for a better society. 🌍

ALL INDIA SURVEY ON HIGHER EDUCATION (AISHE)

-Total enrolment in higher education has been estimated to be 34.6 million with 18.6 million boys and 16 million girls. Girls constitute 46.2% of the total enrolment.

-Gross Enrolment Ratio (GER) in Higher education in India is 24.5%, which is calculated for 18-23 years of age group. GER for male population is 25.4% and for females, it is 23.5%.

-Distance enrolment constitutes about 11.05% of the total enrolment in higher education, of which 46.3% are female students.





BHAKTI NETKE
IPG-2013

STEERING THROUGH 5 INDELIBLE YEARS OF WONDROUS CHASM

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Wondrous and Chasm? Well, yes, they are two highly squabbling words. But by the end of this article, they might put the pieces in place for you. I am not going to explicate any guidelines to steer through this journey of 5 of the most bewildering years of your life because, that's your call to make. But I would take this opportunity to unravel some of the biggest dilemma you would face and the role it plays in shaping you as a person. Right since the time we enter the college after "plus two", as it is rightly labelled, we are posed with a conundrum – What now? And believe me this conundrum would haunt you all throughout your stay at this wonderful place. And this is where the chasm begins.

The first year of chasm is clement. It begins with the right room to choose, the best friends to make, the look to put on, an overwhelming number of classes to attend, decoding the structure and rules of the new planet you are living in, the internet chal raha dilemma (that would persist throughout your stay), coping up with the sumptuous food, getting over the fear of insects and reptiles, attending AASF hIQs, participating in every single thing under the sun of this planet and yet enjoy sailing through the

pristine life this planet has offered you. The second year of chasm is a bit more aggravated. It goes like decoding languages and technologies to learn, deciding the best series to watch, figuring out the sleep management, deciphering what you exactly need to do and when that is done, being flabbergasted over why am I not doing it, getting scared about having completed an year and yet not achieving anything substantial and yet going through the normal schedule while pondering over the question "What now?" So, the chasm didn't end, did it?

The chasm gains an even more colossal form by the next two years. Posed with more serious questions such as choosing the right topic for project, choosing the mentor, choosing the right place to intern at, choosing your priorities, choosing who matter and who don't, deciphering the life outside the college while interning and then returning back posed with even graver questions. And ultimately when you reach the apex year, the chasm creates a stir. The question of "What Now?" becomes even more serious. But it's all worth it in the ways many of us fail to notice. It all adds up to the greater good.

Well, as we were steering

through these years being flummoxed as to what we are exactly doing, we might have failed to notice that each and every single day of all these years made a difference. Right from the day one we learnt to be independent and tackle problems on our own. This is the biggest asset that makes us ready to face the world outside. We learnt to be responsible for our own actions and hence act in a manner purporting to that. We learnt to overcome our fears. From the trivial fear of insects, to the fear of speaking in front of a bunch of people, to the fear of expressing ourselves through art in front of the crowd, we have overcome all of it. We became the best of organizers, the eutaxy rendered by managing our time shifting between studies, presentations, sleep, movies and series time and hangout time made us all superlative managers. This place gave us gems who have stuck by us through the thick and thin. Such kinds of people are rare and could only be found in hostels. The most practical knowledge of how to live life which is not a subject matter of any book or website is taught by this place. We only shape ourselves, our talents and our abilities through all the chaos that is systematically put by some greater entity to mould



ABHISHAR V7.0/IIITM_STREET

us as better persons. Being at the last step of this serene journey, all I would like to say is no matter what we achieve in life, no matter where we are or who we become, these five years are the best set of five years we will ever get to live in our

lives. So don't let the chasm get over you. Be patient to allow that chasm to create a wondrous person that you are. We are all talented to have landed up at this elite place. All that would take us further is the experience, the emotions, the

personality and the family that we build here. So steer through these years of dilemma with fortified strength, a smile on the face and an attitude to never give up and let them build the amazing human that you are. 🇮🇳

वक्त नहीं

वैभव शर्मा
IPG-2007



हर खुशी है लोगों के दामन में,
पर एक हंसी के लिए वक्त नहीं.
दिन रात दौड़ती दुनिया में,
जिन्नादी के लिये ही वक्त नहीं
सारे रिश्तों को तो हम मार चुके,
अब उन्हें खत्म करने का भी वक्त नहीं.
सारे नाम मोबाइल में है,
पर दोस्ती के लिए वक्त नहीं.
गैरों की क्या बात करे,
जब अपनों के लिये ही वक्त नहीं.
आखों में है नींद भरी,
पर सोने का वक्त नहीं.
दिल है गमों से भरा हुआ,
पर रोने का भी वक्त नहीं.
पैसों की दौड़ में ऐसे दौड़े,
कि थकने का भी वक्त नहीं,
पराये एहसानों की क्या कद्र करे.
जब अपने सपनों के लिये ही वक्त नहीं.
तू ही बता ऐ जिन्दगी,
इस जिन्नादी का क्या होगा,
कि जीने के लिये भी वक्त नहीं.

हम सब के पास एक बैंक है, इस का नाम है "समय"। हर सुबह आपके लिए एक नया अकाउंट खुलता है, और समय हमको 86,400 सेकण्ड्स देता है। हर रात्रि बचे हुए सेकण्ड्स जिनको आपने इस्तेमाल नहीं किया है, हमसे छीन लेती है। ये कुछ भी बकाया समय आगे नहीं ले जाती है। निर्णय करना है की दिए गए 86,400 सेकण्ड्स का आप उपयोग करना चाहते है या इन्हें गवाना चाहते है।



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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 seven years since their
unfortunate demise but they are
still alive in our memories.



LIFESCAPE



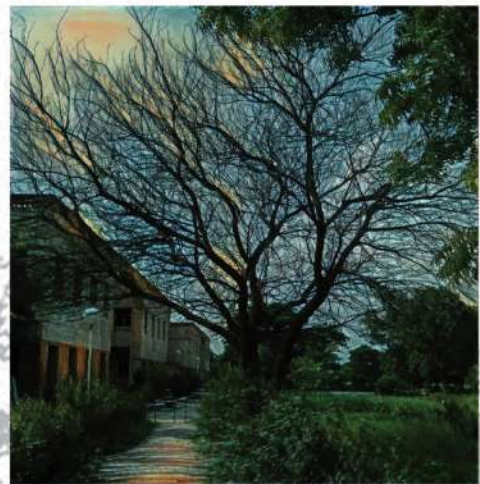
Aditya Singh

Sahastra Bahu Temple Aka Saas Bahu Temple



Srajan Chansoriya

Sati ke Shiv



Gunjan Tripathi

Sometimes you have to stand alone just to make sure you still can



Gaurav Ojha

Starstorm in the backyard



Ankita Kumari

Nature is the art of God



Prem Saraswat

The clearest way into the Universe is through a forest of wilderness.



Ojaswa Sharma

Imitate the Sun, be magnificent.



Sachin Acharya

Summer of the Beautiful White Horse.



Nikita Sharma

Masks hide different colours of one's soul..so that others see only what they wanna show!



Shresth Verma

The God of small things.

THE EVOLUTION OF THE VIDEO GAMES



Evolving Mario

-Shigeru Miyamoto

Donkey Kong was originally going to be a Popeye game, but it fell through. "Then we thought: Why not come up with our own original character?"



1981 Donkey Kong



1983 Mario Bros.



1985 Super Mario Bros.



1985



1991



1996



2001



2006



2012



2017

Around December of 1984, I wanted to see what it would be like with Mario Jumping around who was about twice the size of one in Mario Bros.



1985



1988



1990

Super Mario Bros. Super Mario Bros. 2 Super Mario Bros. 3

Then we gave Mario a pair of white gloves, in order to make his movements easier to spot when he jumped.



1991



1996

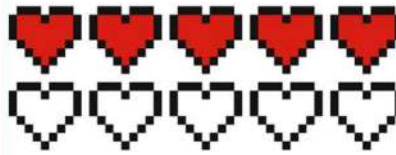


2002

Super Mario World Super Mario 64 Super Mario Sunshine

Nintendo Owns

5 of the top 10 video game consoles sold list:



Nintendo's Top 3 Franchise



Video Game Vendettas

<p>GHOSTS VS. PAC-MAN</p> <p>Every time the ghosts get their maze home all neatly arranged, Pac-Man comes through and eat all the little dots they set out.</p>	<p>DR. WILY VS. MEGA MAN</p> <p>Mega Man is the most violent software pirate ever, storming through Wily's lairs to steal his robot creations' program data.</p>	<p>DR. ROBOTNIK VS. SONIC</p> <p>All Dr. Robotnik really wants out of life is to transform all life into mechanical abominations, but Sonic keeps freeing everyone.</p>
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Game Fashion

<p>Link The Legend of Zelda</p>	<p>Red Pokémon</p>	<p>Sonic Sonic the Hedgehog</p>
<p>Master Chief Halo</p>	<p>Altair Ibn-La'Ahad Assassin's Creed</p>	<p>Lara Croft Tomb Raider</p>



RONAK DHOOT
IPG-2007

EIGHTH GENERATION CONSOLES :: 360 GAMING'S

28

Over the last half decade, Virtual Reality (VR) has taken a huge leap forward and its pretty much indistinguishable for the so-called VR efforts of the 80s, 90s, and early 2000s. While VR has technically been around in some form for decades, modern VR is a very different animal and largely came into its own starting with the early Oculus development kits. Since then, we've seen the technology push its way into the hands of more consumers

via mobile solutions like Google Card, Gear VR and lots more. Lots of real state builders are using it to show their building, flats, office etc.

So how can gaming sector stay behind in this field, right now, there are three high-end VR gadgets are trending in the market. At the very most expensive end of the scale are the HTC Vive and Oculus Rift. Offering a middle ground between low-end mobile VR and high-end PC based VR is the

Sony PlayStation VR. The "big three" VR options trending the gaming industry are:

- Sony PlayStation VR
- Oculus Rift
- HTC Vive

For those who are considering one of the current "big three" solutions, there's a lot to consider including price of entry, specs, and the list goes on. Curious how should I compare? Take a look at some of the key differences in this comparison:

	Oculus Rift	HTC Vive	PlayStation VR
Display	2,160 x 1,200 px	2,160 x 1,200 px	1,920 x 1,080 px
Field of view	110 degrees	110 degrees	100 degrees
Refresh rate	90Hz	90Hz	120Hz
Weight	470g	555g	N/A
Tracking area	5 x 11ft	15 x 15ft	Unknown
Controllers	Xbox One pad / Oculus Touch	2 x Vive baton controller / Steam Controller / Any PC-enabled controller	DualShock 4 / PlayStation Move
Audio	Integrated headphones	N/A	N/A
Connectivity	HDMI 1.3, USB 3, USB 2	HDMI 1.4, USB 2	HDMI and USB to VR breakout box
OS	Windows	Windows, OS X, Linux	PlayStation 4



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Running one of these three headsets requires you to have a computer – or PlayStation 4 – that meets its minimum requirements. Currently PlayStation VR doesn't run on anything other than the PS4, despite rumors that Sony is thinking of taking it to PC, therefore the Oculus Rift and HTC Vive are the only two headsets you need to concern yourself with PC specs wise.

So now the first question hitting your head must be 'which one?'. Okay, so among these three headsets; which one should you buy? I'm actually going to go ahead and give you a real answer here.

If you don't want to buy a really expensive computer, buy the PS VR. It's definitely not the best headset, but the price is right and you won't have to worry about keeping up with GPU Joneses with periodic

system upgrades. Rule of thumb in this situation: if you want to play games, don't have a gaming-ready PC and don't want to break the bank with VR, PlayStation VR should be your point of entry. Also, Sony's existing relationships with game studios will likely lead to some AAA titles hitting the platform first.

Although it's a tough call to say there's any particular "best" when it comes to VR headsets, each device offers up an experience that sets it apart from others.

If you're a VR diehard who is personally invested in ensuring that virtual reality remains an open platform, buy the HTC-Vive. While Oculus and PlayStation are all about the exclusives, HTC is buying into Valve's SteamVR system, which hopes to ensure that one piece of content will play

across headsets. If, however, you do already have a computer powerful enough to let you join the VR bandwagon, I'd personally say it's better to buy the HTC Vive due to the flexibility of seated or room-scale VR at a price that works out cheaper than going all-in on Oculus Rift's room-scale setup. That said, if you'd rather just have some seated VR fun, Rift does offer that up at a cheaper price than the Vive. Also no one can beat the experience that HTC Vive can offer with its amazing room-scale technology.

Happy Gaming...!! 🎮

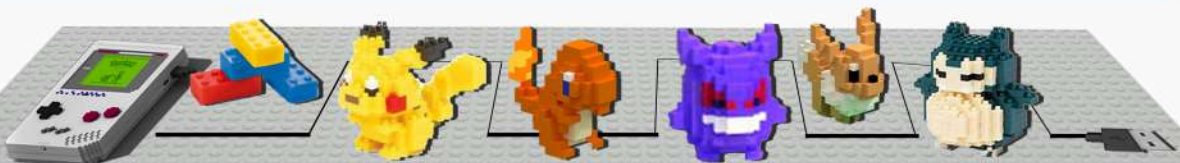
Ronak Dhoot (IPG-2007) is the CTO & Co-founder at Geek Shastra. He is a great programmer.



VIRTUAL REALITY EVERYWHERE!

- Virtual reality can even be used to monitor nuclear power plants. For example, it can be used to inspect spaces within the power plant, which are not safe for humans due to radiation. After such an inspection, a robot can fix the possible problems

- The goal of research is to create interactive methods that enable easy and efficient use of virtual reality so that everything goes well and the most necessary information is available at all times. An important factor is multisensory research, which explores how different human senses complement each other and interact with technology. The goal is to make the use of virtual reality as natural and functional as possible.



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AYUSHI RASTOGI
IPG-2016

WHEN THE STORM IS OVER

30

I borrowed this title from a quote by the famous author Haruki Murakami. Reading this aloud instills me with positivity everytime.

Many a times it happens in our lives that we stand perplexed in front of a situation. We tend to focus more on the complexities of the problem rather than sorting our ways out of it. Our mind seems to be blocked. Our thought process seems to be choked. Our conscience seems to give it away. Our faith in everyone around us suddenly starts to fade. Suddenly, we start picturing the whole world to be smarter than us and think that every other person on this planet other than us could solve this problem one way or the other and that too in a better manner than us. "Moment by moment, I am losing my confidence. I am being lost in oblivion. Oh hell, I am missing this train this very minute, this very moment. Oh My God! What do I do now?"

Oh, did you just mention God? Well congrats then, you just spoke of the very power who

could extract you out of your dilemma. That chunk of faith you placed a few moments before is going to change you and your thought process. Now you have gone half way there. Your problem is not just yours, not anymore. Your faith is there to support you. The next step is to stand up, take a deep breath a couple of times, take a brisk walk, rewind your mind and think of the most beautiful thing that has happened to you ever. Is that thing still happening to you? If yes, do you really think that that will remain with you forever? No. Everything is temporary. Life is an amazing bundle of happy and sad moments. There is an equilibrium between them. If an element from set A named "sad and bad" is pestering you, another element from the set B "happy and chirpy", its counterpart, will definitely occur, when the right time comes. Only you need to change your mindset.

It is you who needs to have confidence in yourselves. Don't ever be afraid of the

problem in front of you, because you have been assigned this mountain to show others it can be moved. Rise up, start focussing on the solution rather than the problem, be positive. Pivot your mind around the problem, wander in your grand mind palace for sometime, concentrate and then try harder because once the problem is solved, you won't even believe you are through with it. As Naveen Bansal from the famous webseries Pitchers says, "Kamre mein andhera hai aur apko bulb jalana hai, haath pair maarte rahoge switch board par, to kabhi na kabhi bulb jalega boss!!".

"And once the storm is over, you won't remember how you made it through, how you managed to survive. You won't even be sure, whether the storm is really over. But one thing is certain. When you come out of the storm, you won't be the same person who walked in. That's what this storm's all about." — Haruki Murakami 🍷

PUZZLE ZONE(ANSWERS)

5. On your lap
6. Clock
7. 2 (Sum of numbers equidistant from front and back form increasing series of power of 3)

1. Darkness
2. Silence
3. Coffin
4. No, because it will be night



ABHISHAR V7.0/LIFESTYLE

31 THE MYSTERIOUS WORLD OF QUANTUM COMPUTING!

ANKUR SINGHAL
IPG-2014



In today's smart era, it is beguiling that smartphones carry so much computing power equal to military computers fifty years ago which comprised an entire room. The evolution of technology has been phenomenal. We have seen a lot of transformations in the machine era from big size computers to desk PCs or laptops to hand-held devices like smartphones. Now everyone is powered with computing facility at his/her end. With all this evolution and transformations, today's problems have become more complex and dynamic and are thus difficult to solve using traditional systems or machines. To solve these problems, the most advanced technology of quantum computing is on the line! Quantum computing is a big revolutionary transition, from classical computers to the computers which are infinitely faster and can solve problems that would require unattainable amounts of computing power today.

If we look at numeric figures of data consumption, it is around 2.5 exabyte of data every day. With every minute of every day, the rising glorious number of 3.2 billion global internet users continue to feed the data banks with approximately 9,722 pins on Pinterest, 347,222 tweets and 4.2 million Facebook transactions. Data is

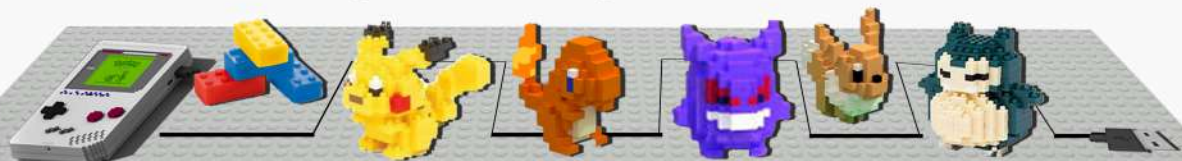
accumulating at a tremendous rate from various sources. If we look at data processing power of traditional computers, it is at its limits and would not be able to process such humongous data. Moore's law that was coined in 1965 says that the number of transistors on integrated circuits will double every year. But in today's time, this law has proved remarkably resilient as the transistors have gone as small as possible with existing technology. Now to process the enormous data that is generated every single day and to solve increasingly complex problems, we require quantum computers which would be exponentially more powerful compared to the traditional computers.

Understanding the roots of quantum computing, it merges two great scientific revolutions of the 20th century: Computer science and Quantum physics. Quantum physics is the theoretical basis of the transistor, the laser, and other technologies which enabled the computing revolution. But if we look at today's computing machinery, it still operates on "classical" Boolean logic (0 or 1) at the algorithmic level. In contrast, quantum computing is the design of hardware and software that replaces Boolean logic by quantum law at the algorithmic level. A quantum

computer uses quantum bits or "qubits" which can be both zero and one at the same time. There are a number of physical objects that can be used as a qubit such as a single photon, a nucleus or an electron.

How Quantum computer works?

A quantum computer works in a different manner from a classical computer. Quantum bits or 'qubits' can exist in a superposition state of both zero and one simultaneously and because of this, a quantum computer possesses superior computing power. A set of two qubits can be in a superposition of four states, which therefore require four numbers to uniquely identify the state. The amount of information stored in N qubits is two to the power of N classical bits which is very large as compared to classical computer. For certain computations such as optimization, sampling, search or quantum simulation, it promises great speedups. If we talk about its applications, 'Quantum Simulation' is one of the most anticipated application. Instead of spending years and millions of dollars, quantum computing enables researchers to study millions of candidates in virtual space by modeling a handful of materials and chemical reactions. Another very exciting application is the devel-



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‘opment of Quantum Neural Networks’. Artificial neural network models are widely used in machine learning for important tasks such as pattern recognition, translation, and speech. Quantum computing has an enormous potential to be applied in the field of artificial intelligence and machine learning.

Are quantum computers a replacement of classical computers?

No, quantum computers are not a replacement of classical computers. Quantum computers are not universally faster. They are only faster for special types of calculations and particular algorithms when all the

quantum superpositions are available at the time of doing computational parallelism. A quantum computer reduces the number of operations required to arrive at the results exponentially. Improvement is not in the speed of the individual operation but it is in the total number of operations needed to arrive at the result. And also, this is witnessed in only particular types of calculations for some particular algorithms. So quantum computers and classical computers are not a replacement and work in different domains.

The technological implementation of quantum computers is still in its infancy, and quantum

neural network models are mostly theoretical proposals or await their full implementation in physical experiments or research in artificial intelligence. This field is experiencing new and exciting innovations every day. Various institutions like NASA and companies like Google, Microsoft, IBM, and Intel have entered the race and are developing new and more efficient algorithms needed for quantum computing. At last, I would like to quote Alvin Toffler who said ‘Technology feeds on itself. Technology makes more technology possible.’ which is correctly happening. Let’s get ready to see this magic happen! 🎮

MIND BENDING FACTS ABOUT QUANTUM COMPUTING

- In a quantum state, particles can achieve something we call superposition, where they exist in multiple states simultaneously.
- A quantum computer could solve problems in a few minutes that would take a traditional computer roughly the lifetime of the universe.
- In a quantum state, two particles can enter a state of profound entanglement, remaining eerily connected to each other no matter how far apart they become.
- A quantum computer would run on quantum bits, or qubits. Unlike traditional bits, which are either a “1” or a “0,” those clever qubits can act as a “1,” a “0” or both, and have exponentially greater computing power.





Despite the rise in the stress-induced illness, how long can you continue to pound the path in a furious race to your imaginary finish line?

How long can you stay on the field refusing to give up on that one idea which is trivial for others but still carry on just because a faint voice of your heart asks you to?

Till how long can you ignore the pushy ones asking you to revert back to the “set default way”, even when you have silence and only silence to offer in return?

Rewinding the clock and talking about my journey, it all started with just an idea.

An idea that changed the course of my life. An idea that gave me a path to my finish line. An idea that gave me strength to chase my dream.

It feels great when being a novice you play a move that startles everyone. I remember that last quarter of 2014, full of opportunities. Getting a golden chance to visit an IIT, booking my first flight tickets and finding a true friend who chose to walk along with me on “the path less travelled by”.

Talking about those 6 days at IIT Madras, it made me realize how big my idea was. It was tough to refuse the offer of those incubators at Madras as I decided to scale it up in my

institute where my mentors could support me throughout. On my way back I gave a second thought to it but opportunities come and go, I wanted to grab the right one.

When I came back, the world saw me with new eyes. I was showered with appreciation and it added another dimension of happiness and confidence in me. But the journey had just begun. I burnt the midnight oil and searched every nook and corner of the internet to take my idea to the next level and decided to get an IPR.

Filing the patent wasn't a cakewalk. It took me 10 months to get prepared with the paperwork and test the device for all possible defects. It was developed with an aim to reduce road accidents at night. Restriction of vision is a major reason for the same and this device is capable of reducing the glare caused by the headlights of oncoming vehicles.

Little did I know, I had only crossed the first hurdle and many more were yet to come. Checking the IPR website became a part and parcel of my daily routine. It wasn't easy doing this for 15 long months and this wait gave me the taste of true patience.

“A moment of patience in a moment of anger, saves a thousand moment of regrets”. There

were several such moments in these 3 years of journey when I was about to give up but the eagerness to cross that finish line kept me motivated.

Anyone can have a million-dollar idea, but turning your dream into a living and breathing startup is easier said than done, even for someone with years of experience. Walking through those thorny paths I somehow made it through. No doubt there were scars but each scar was a personification of my will to carry on. I remember those months when I'd toiled day and night for getting my company registered.

There was just a 25% chance for the company to get certified by DIPP, Govt. of India. Now when I look back I feel proud that my hard work paid off.

Time is a strange thing. It is famous for healing most brutal wounds, and yet infamous for killing the slightest hopes.

So finally when I took my first bite of success, after what seemed like many eternities stitched together, I understood the true essence of happiness. “And this part of my life, this little part, is what I call, “happyness”.

Being a tyro in the entrepreneurship journey, it was difficult for me to learn about everything that too in a very short time. What I learnt was that



LEARN THE RULES AND
PLAY BETTER THAN ANYONE ELSE



there are four key things that a startup needs to get together before thinking about a solid business - the idea, the right approach, the right team and the finances.

Generally startups fail at the third point but I was lucky enough as my team is my strength. It feels rewardable when 15 great minds show faith in you and your idea. I always had a belief that a fresher can do many wonders and it proved true when I worked with them. Their ideas were valuable for the growth of my startup and no one can have such zeal and enthusiasm as they do.

The Product Launch event was on the verge. I still remember the hustle-bustle before that red letter day. It was for the first time when we were about to face the real audience. The fear choked me, as I had seen many others succumb to failure, the tick tock of the clock perturbed me and sent chills down my spine but I retained my composure without letting my mind buckle under the stress. No one

can understand the satisfaction, I got after the successful launch but it was just a milestone, the finish line was still many miles away.

I wasn't alone in this journey. There was someone who had always held my back, lived every moment of this journey with me, kept me motivated all the time. I dedicate this article to my true friend "Rohit" as all "I's" and "My's" used by me in this article are "We's" and "Us's". Without him, the start-up dream would have been just that, "a dream". I always had a fear that I may lose some of my close friends as I was too preoccupied but they always encouraged and supported me. Also how could I forget the steady faith of my parents in me, when the world around me was crippling.

In spite of all the turbulences, the wearing out-patience and the impossible dream called "start-up".

In spite of rejecting some opportunities for this uncertain venture, in spite of the 3 year

long wait before anything tangible could be done. In spite of faking confidence for convincing everyone, but deep inside fearing because "what if it doesn't work".

In spite of all the troughs that came free of cost with this journey, it was all worth it.

Yes...

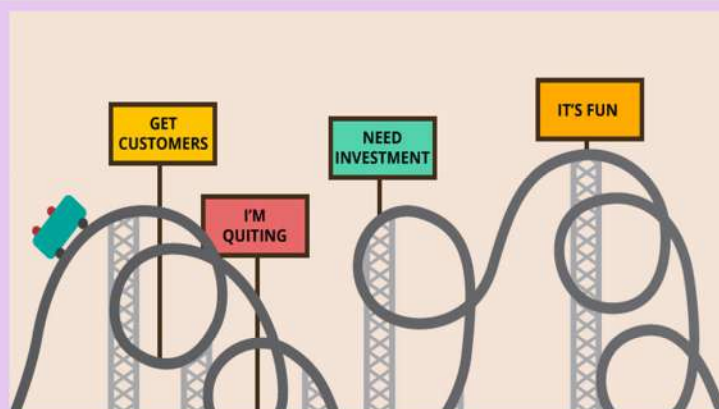
The wait was worth it.

The uncertainty was worth it.

Trusting in ourselves and continuing even with that fear, was worth it.

I've learnt this thing. One day, there stood a 19 year old, strangled between two choices. One, to do what is advised to do, or to do what he deeply desired to. No matter what happens in the end, I know that if I'm writing this article today, it's because that 19 year old guy had not succumbed to unmounting pressure, it's because he had decided to take an unconventional path.

It's because he had decided to go, beyond insecurities... 🤖





हॉन्गकॉन्ग के पास समुद्र किनारे दीवार पर विशाल अक्षरों में लिखा है "नया युग नई क्रांति। मैं सपने देखने वाले दिलों का निर्माता हूँ।"

नवीनतम सर्वेक्षण के मुताबिक 2016 तक हान्गकॉन्ग में करीब 2,000 स्टार्टअप्स थे जिसमें 5,000 से ज्यादा कर्मचारी काम करते हैं। दिलचस्प बात यह है कि विदेशी

स्टार्टअप संस्थापकों का सबसे बड़ा प्रतिशत 20: यू.एस. से है। पिछले दो दशकों में, चीन में उद्यमिता एक घातीय दर से बढ़ी है। यह न केवल चीन बल्कि दुनिया के बाकी हिस्सों के लिए भी बड़ा परिवर्तन ला रहा है।

सन् 2000 में चीनी राज्य के स्वामित्व वाली औद्योगिक उद्यमों और गैर-सरकारी स्वामित्व वाले चीनी निजी उद्यमों द्वारा अर्जित कुल राजस्व लगभग 4 ट्रिलियन 'युआन' समान था। 2013 तक एक सरकारी कंपनियों का कुल राजस्व जहाँ केवल छह गुना बढ़ा था। गैर राज्य क्षेत्र में राजस्व 18 गुना से अधिक बढ़ गया था। इसी अवधि में मुनाफे में और अधिक उल्लेखनीय अंतर दिखा सरकारी स्वामित्व वाली कंपनियों में सात गुना बढ़ोतरी हुई लेकिन गैर सरकारी स्वामित्व वाले व्यक्तियों के मुनाफे में करीब 23 गुना वृद्धि हुई।

अर्थव्यवस्था में मन्दी को बदलने की कोशिश में नवाचार और उद्यमशीलता पर सरकार का ध्यान भी नए पंजीकृत उद्यमों के उदय में सहायक रहा है।

कुछ साल पहले तक चीनी 'इनोवेशन' का मतलब था नकल और फर्जी चीजें। लेकिन अब प्रेरक शक्ति 'ट्रैंडिंग फोर्स' है 'आंत्रप्रेन्योर्स' की साहसी प्रतिभाशाली और वैश्विक सोच रखने वाली पीढ़ी निवेशक उन पर नजर बनाये हुए है। वर्ष 2014 से 2016के बीच लगभग 77 अरब डॉलर का 'कैपिटल' निवेश हुआ, जबकि 2011-13 में यह सिर्फ 12 अरब डॉलर ही था। चीन की 'यूनिर्कोर्न' 350 अरब डॉलर से ऊपर की कंपनी है जो अमेरिका के कुल वैल्यूएशन

के करीब है। नतीजा यह है कि जहाँ चीन में 609 अरबपति हैं वहीं अमेरिका में 552। चीनी 'आंत्रप्रेन्योर्स' के बिजनेस तेजी से बढ़ने के दो कारण हैं -

पहला चीनी अर्थव्यवस्था इतनी बड़ी है कि यदि कंपनी घरेलू बाजार में ही सफल हो जाए तो बड़ा आकार ले सकती है। यूरोप की तुलना में चीन भाषा और संस्कृति में अधिक समान है और अमेरिका के विपरीत मूलभूत ढांचा जैसे सड़कें 'वायरलैस ब्रांडेड' नया और श्रेष्ठ है।

दूसरा, चीनी खरीददार नई चीजों का प्रयोग करने में झिझकते नहीं हैं। अच्छे प्रोडक्ट पर नए ब्रैंड वाली कंपनी को इसका फायदा मिलता है। नई 'टेक्नोलॉजी' को आजमाने के लिए भी वे असाधारण उत्सुकता दिखाते हैं। चीन बहुत तेजी से 'कैशलेस' हो रहा है। चीन में जहाँ पिछले वर्ष मोबाइल पेमेंट चार गुना बढ़कर 8.6 खरब डॉलर हो गया था, अमेरिका में यह 112 अरब डॉलर ही था। साहसी ग्राहक न सिर्फ नए प्रोडक्ट आजमाते हैं बल्कि यदि वे उत्कृष्ट श्रेणी के नहीं भी हो तो पश्चिमी लोगों की तुलना में चीनी अधिक क्षमाशील होते हैं। चीन में स्मार्टफोन मोबाइल पेमेंट और 'इन्टरनेट ऑफ थिंग्स' की विस्फोटक वृद्धि ने कई कंपनियों को तेजी दी। 'कुआंग ची' समूह हीलियम से भरे गुब्बारों से कमाई कर रहा है। बहुत सारे सेंसर और संचार उपकरणों से लैस ये गुब्बारे शहरों के बहुत ऊपर टंगे रहते हैं। इसके चेयरमैन रोपिंग लिऊ का मानना है कि स्मार्ट शहरों के लिये यह सस्ता उपग्रह है। यह ट्रैफिक, प्रदूषण पर निगरानी रखने के अलावा 'इन्टरनेट ऑफ थिंग्स' के लिए हब का काम कर सकता है।

फंडिंग की जिम्मेदारी पहले बड़ी संस्थाओं जैसे होराइजन्स वेंचर्स पर होती थी। अब इसमें मंथवर्क वेंचर्स और वैक्टर वेंचर्स जैसी उभरती संस्थाएँ भी शामिल हो रही हैं। इसके अलावा अलीबाबा जैसे बड़े चीनी निगम भी हाल ही में स्थानीय स्टार्टअप में

सक्रिय रूप से निवेश कर रहे हैं।

इन्टरनेट उद्यमियों ने 1990 के मध्य में उभरना शुरू कर दिया था। समकालीन दिग्गजों जैसे 'अलीबाबा, टेनेंट और बैडु' का भी तभी गठन हुआ था। 2000 के दशक में उद्यमियों की संख्या फिर से बढ़ी। 'ज़ियामी, जेडीकॉम और क्यूहु 360' के संस्थापक चीन के इन्टरनेट उद्यमियों के प्रमुख उदाहरण हैं जो इस अवधि के दौरान उठे थे। इन्टरनेट और मोबाइल प्रौद्योगिकी क्षेत्रों के अलावा, कई उद्यमियों ने अन्य उद्योगों जैसे ऊर्जा, स्वास्थ्य देखभाल, वित्तीय सेवाओं, उपभोक्ता, खुदरा क्षेत्र आदि में भी रुचि दिखाना शुरू किया।

आज चीन में 1980 और 1990 के दशक में पैदा होने वाले कई युवक हैं जो उद्यमी आकांक्षाएं रखते हैं। निस्संदेह एक निष्पक्ष संख्या या शायद उनमें से अधिकांश अपने पहले प्रयास में सफल नहीं होंगे, लेकिन चीन बड़ा है और बड़े आधार का एक छोटा प्रतिशत भी अभी एक महत्वपूर्ण संख्या है। अपने पूर्वजों के विपरीत, ये युवा विफलता से डरते नहीं हैं। उनके लिए 'ट्रायल एंड एरर' प्रक्रिया का एक अनिवार्य हिस्सा है। अंत में चाहे वह सफल हो या न हो, उनके अनुभव बढ़ते हैं और भविष्य के लिए नए अवसर खुलते हैं। भारत इस दौड़ में बहुत पीछे नहीं है। व्यक्तिगत गति पर होगा। देशों की सरकार की स्थापना बहुत भिन्न है। चीन में सरकार एक बड़े समाजिक बदलाव के लिए उद्यमियों को मिलाने की कोशिश कर रही है। यहाँ आपके पास बहुत उद्यमशीलता है, पैसे बनाने के कई महान विचार हैं, लेकिन जो गायब हैं, वो ये विचार कि कैसे प्रौद्योगिकी भारत के सामाजिक - आर्थिक विकास का मूलभूत हिस्सा हो सकता है। चीन की तुलना में भारत में अधिक उद्यमी हैं लेकिन वे अलग-अलग कंपनियों के विकास की दिशा में कड़ी मेहनत कर रहे हैं। विकास अंततः होगा लेकिन यह समन्वित प्रयास नहीं होगा। व्यक्तिगत गति पर होगा।





NISHTHA
GAUTAM
IPG-2014

PURE INDULGENCES
@IITM

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Most of us have had this feeling where we want to revisit a spot just to remember the exact moments spent there, moments that have gone blurry over the years. A childhood home, high school classrooms, the bookstore around the corner, or the bakery at the high street, a captivating place can be truly enamoring only when you create memories there. The airs you get from the moments you spent at that spot compel you to live them once again, be it in your head or in person.

This campus that we live in is full of such beguiling places, where the view is just magnificent and the moments worth recalling. Certain places just force me to sigh in awe. On the walks down the campus lanes, it is impossible that one doesn't come across some beautiful scenes and spots. The sounds, tastes, and sights of all the seasons can be experienced here at its finest. You can smell the change in the seasons around here, the autumn displaying the red and yellowish hues of dusk as it sheds its skin, winter mornings damp with the dew

drops glittering and riding for a fall on the electric wires, summer afternoons glinting on our sweaty skins with the excessive humid breezes and the rains are just satisfying.

The lush and greenery are seemingly obvious but what appears to be most mesmerizing is how well it all blends in with the kind of place one would love to live in. As a wild child, one must have wondered how it would be like to live in the midst of the woods. Turns out this is a tad bit closer to that image of growing in the wilderness but with all the hints of contemporaneity. Being a city lad possibly lowers the chances of witnessing such sights every day. A sight to behold is the moon rising after the dusk and the birds returning to their nests in a flock of varied patterns. The night strolls are something else, it's when you get to see the intricacy of the spider webs delicately hanging like banners across the road, their interlaced threads glistening in the street lights.

As for the hopeless romantics, the campus possesses places

beautiful than they seem to be. Since these individuals prefer places where they can be free from the grabs of the academia, someplace offbeat, someplace bizarre, this place has it all. Where the libraries are preferred by the bookworms, the quixotic folk might prefer the ruins, crowning points and sweeping fields, and the campus is surely filled with such nostalgic spots. Not to mention the view from the Central Library rooftops, the Open Air Theatre terraces on either sides of the building, the Butterfly Conservatory with its outlandish garden seating and pavements and the expanse alongside the Cafeteria which renders a strong impression of park benches in the woods. Since this write-up is just intended to be read by the general public, I would still urge them to wander and discover more of these spots.

Also, Have you really lived if you haven't listened to Radiohead while rambling in the deserted boulevards or sitting by the window sill of your dorm room at 3 in the night? 🍷

Life isn't about finding yourself. Life is about creating yourself.

-George Bernard Shaw

It's all about quality of life and finding a happy balance between work and friends and family.

-Philip Green



ABHISHAR V7.0/IITM_STREET



Hey folks! It feels good to write for yet another volume of Abhishar. I did not try to make the intention of my article clear through the title so I hope that after your initial curiosity dies down, I don't bore you all to death. Through this post, I aim to channel my inner storyteller to narrate two tales on wisdom and love.

Here's something I'd like to say before I start:

1) During the festival of Halloween, people carve scary faces on their pumpkins, fill them with lights/candles and place them on the porches of their homes for decoration.

2) You must know how to carve wood and make a boat, for emergency purposes. If not anything, watch Lost (TV show) to know what I'm talking about.

3) Never trust a stranger. Ever. Indian Railways has done well to prove that.

Bizarre, eh? Well, that's me. You'll know. Let's begin!

Story #1:

Once upon a time, a very bright yet impatient student approached her teacher asking, "How do I know what's best for me?"

It was a rhetorical question but the teacher chose to give the kid an experiment. "Go to the nearest pumpkin field and get me the biggest and gnarliest

pumpkin you can find for Halloween. But the only catch is that you can go through the field once and can't turn back to pick."

The student went to the field, passed the first row and immediately noticed a pumpkin quite suitable for carving but she wondered if she would find a bigger and better one further. So she moved forward. Now and again she would find big pumpkins but she always felt that they were either not gnarly enough or not big enough. At the end of the day, she came back to the teacher empty handed.

"I missed plucking the best pumpkin in hopes that I would find a bigger one. But I couldn't go back." The teacher immediately understood her dilemma. He said, "This is exactly what happens in life. We are presented with a sterling opportunity but we forego it in hopes that we will get a better one. That is our greed. It obscures the best thing that can ever happen to us."

Well that is life. It isn't always fair but if it gives you lemons, make lemonade. This doesn't necessarily mean that you compromise. No, never! But you're not omnipotent so you cannot realize if your decisions will necessarily bear you positive results. All you can do is go

with the flow and improvise where you can. That is true wisdom. Because opportunities seldom knock twice.

Story #2:

Once upon a time, there was an island where all the feelings lived: Happiness, Sadness, Knowledge, and many others, including Love. One day it was announced to the feelings that the island would sink, so all of them were to devise their own escape plans. Everyone started building their boats to leave. Everyone except Love. Love wanted to hold out until the last possible moment. When the island had almost sunk, Love decided to ask for help. Richness was passing by Love in a grand boat. Love asked, "Richness, can you take me with you?"

Richness answered, "No, I can't. There is a lot of gold and silver in my boat. There is no place here for you." Love decided to ask Vanity who was also passing by in a beautiful vessel. "Vanity, please help me!" "I can't help you, Love. You are all wet and might damage my boat," Vanity answered. Sadness was close by so Love pleaded, "Sadness, let me go with you." "Oh Love, I am so sad that I need to be all by myself!" Happiness passed by Love too, but she was so happy that she did not even



hear when Love called her. Suddenly, there was a voice, "Come, Love, I will take you." It was an elder. So blessed and overjoyed, Love even forgot to ask the elder where they were going. When they arrived at dry land, the elder went his own way. Realizing how much Love

owed this unknown benevolent elder, Love asked Knowledge, another elder, "Who helped me?" "It was Time," Knowledge answered. "Time?" asked Love. "But why did Time help me?" Knowledge smiled with deep wisdom and answered, "Be

cause only Time is capable of understanding how truly valuable Love is."

...

I will leave you all at that. Cheers!

drops mic 🎤

THE SKY

-HIMANSHI KALRA
2017-IMG



I look up at the lonely sky
To ask how when and why
The sky questions me, "Why now?"
And I greet him with a slight bow
Reading carefully what he didn't say...
He wanted to...but I kept him at bay..
I answered with all my ...might
Trying to hide my own fright...
I said, "Why do you care if it's now or never,
Now I am lost forever....
How will I be restored
Or ever cured?
Haven't I drowned myself in the depths of my despair?
May be it's not that very fair..."
I was finished before I could finish...
I laid there waiting for him to punish...
The sky turned greyish white...
I was sure it was not yet night..
The sky gargled his throat gulping two fluffy clouds...
He spitted over me although I was in my shroud..
Then, _he replied_with a strange sense of ache
All my senses got awake
"I am the sky, of all the people that move beneath me.
I do give special attention to thee,
May be you failed notice me in that bluishness
Weren't you showing your over recklessness?
Huh? Now, only when I punish you,
You turn soft and pay attention...
Oh ! Now it's all over.
Don't show me your gullibility,
You already lost your credibility."





If we look at the world of cyber security through the eyes of the media, it's a pretty frightening view. We hear story after story of security breaches hitting major companies and the subsequent data leaks that follow affecting thousands of people. It's enough to fill any business with trepidation.

It's these fundamental security myths that cause organizations to incorrectly assess threats, misallocate resources and set inappropriate goals. Dispelling those myths is key to developing a sophisticated and appropriate approach to information security.

So, what are these myths exactly?

1. Cyber security is an issue for the IT department.

There is no doubt that cyber security comes largely from implementing appropriate technical controls to safeguard information held within an organization. However, the biggest issue today is in regard to the users of the systems where this information is held. They represent the biggest risk either through intentional actions (a disillusioned member of staff for example) or by accidentally doing something unwise.

The recent Verizon report on data breach investigations found that 63% of confirmed data breaches involved weak, default or stolen passwords. In another study by CompTIA, human error

accounted for 52% of the root cause of security breaches.

Educating staff to not open attachments or to not click on links within emails is one of the most important areas for organisations to concentrate on today. Whilst it is possible to put technical controls in place to stop attachments or links being accessed, it tends to be at a high cost to the efficiency of staff and so is often not appropriate. The risks from cyber attacks are no longer just a matter for technical teams.

High profile attacks like TalkTalk and Sony have resulted in serious financial and reputational damage. The result is that cyber security is starting to become an issue that is handled at boardroom level.

2. Software will sort out your security issues.

Good software management is the number one process required to deal with most cyber attacks. It is effective in reducing the likelihood of a successful attack and in mitigating the effects. Once again, people pose the biggest threat to secure information.

Education regarding exposing their organizations to danger must be implemented. Businesses must strike a balance here though – introducing technical solutions that are complex and unusable by staff is

counterproductive and will not protect sufficiently against attack.

3. It's not all just a question of keeping the bad guys out.

Most organizations that are serious about protecting their information understand that a successful cyber attack is unfortunately inevitable - we have to accept that trying to keep the bad guys out may not be possible.

"We can't stop them, we can just slow them down".

4. It's just the big businesses that will be attacked.

A 2015 HM Government report confirmed that 74 percent of small and medium sized enterprises reported a security breach. However, only seven percent of small businesses expect information security spend to increase in the next year.

The myth that small and medium-sized businesses don't face a threat is actually the very opposite.

For a hacker, small and medium sized organizations are seen as an opportunity as they believe less is being done to protect data.

This data might be information about clients, customer details, bank details or it might be as a way into one of your customers' systems where you are linked through e-commerce, by



email or in some other way.

5. I set a strong and complex password to my account, so I'll be OK. Yes, it's strongly recommended that you set a strong password, so don't skip this essential step. It should be one that has more than 15 characters, both upper and lower cases, and must contain various numbers and symbols. Set a random one, so it will be even more difficult for someone trying to break it.

But keep in mind that having a strong password is not enough to keep cyber criminals away. It's just one of the many security layers that will keep you safe.

Next safety measure that you should check: your password should be unique.

Don't reuse it between accounts, otherwise a cyber crook will have access to all your digital assets, just by breaching one of those accounts. The best options is to use 'PASSPHRASE'.

6. I only download and access information from trusted sources. This keeps me protected.

This is a security myth pretty difficult to break. Most people think that accessing safe and secure locations (and even downloading from those websites) will keep them safe. Another common misconception, somehow related, is this one: "It's on the internet so it must be safe, otherwise it would

have been taken down by law enforcement agencies".

The reality is quite different. Even if we access and download from a trusted source, we are still vulnerable to online dangers. Illegal websites can be launched overnight and disappear just as quickly, but they can also last for years and not get taken down. So don't count on the law enforcement agencies, they're usually overworked and can't keep up with cyber criminals' shenanigans. Malicious software developed by crooks is designed to remain hidden from classical antivirus detection.

7. I don't have anything worth stealing.

Each and every one of us has personal and sensitive data that we want to keep to ourselves and not share with anybody. In the Internet age we live in though, this is becoming increasingly difficult.

One of the primary purposes (if not the only one) of the World Wide Web was to share information. Once information about us is out in the Internet domain, it's no surprise that it can find its way into the hands of bad people. It is essential to ensure that the more sensitive or personal information is better protected. This includes

protecting information stored on our local PC, tablet or smartphone.

We need to realise that any device that can connect to the Internet is an opportunity for hackers.

8. In case I get infected, I will see that for sure.

Don't be so sure about this. Indeed, this used to be true. In the past, when computers started to run slow and get annoying pop-ups all over the screen, it was a sure sign of infection. Nowadays, cyber criminals improved their methods. They are more efficient and know how to disguise their attacks.

In most cases, users can't tell if their system is involved in spam campaigns or coordinated DDoS attacks. Malware is built to be undetectable and untraceable even by antivirus software, in order to retrieve the needed sensitive information. It may be months before you even notice.

The hacker of today only needs access to the Internet to initiate an attack. As connectivity to the Internet continues to grow, so does the cyber attack surface available to hackers.

Understand the Risk, Educate Yourself, Secure Yourself. 🍷

"Treat your password like your toothbrush. Don't let anybody else use it, and get a new one every six months."

-Clifford Stoll



ABHISHAR V7.0/GEEKS_CORNER



Some roads are hard some may be tough, but my friends, no road is easy in this life.

Easy road is a misconception spread by a group of lazy people who neither want to get success nor want to let others succeed.

Life is not a cake walk. Any path you opt for offers you challenges, some present them right up, some reveal them after a while, but sooner or later, they all do. The bitter fact is that a journey without challenges hardly exists.

Startup is a risky affair, doing startup in pre-final year of engineering is one of the biggest gambles a person can make. You are risking your career, your life, so is it worth it?? The answer to this question doesn't exist as it depends on your idea, dedication, thinking, approach towards problems and your TEAM, your buddies, your pillars.

When it comes to a startup, we

have three questions: What, Why and When. Let's talk about each one by one.

What: Startup is nothing but a business and thus you have to be a businessman. You need to have some managerial skills, have capability of making decisions and more importantly sticking with them even when they go wrong, and must have an attitude to never give up.

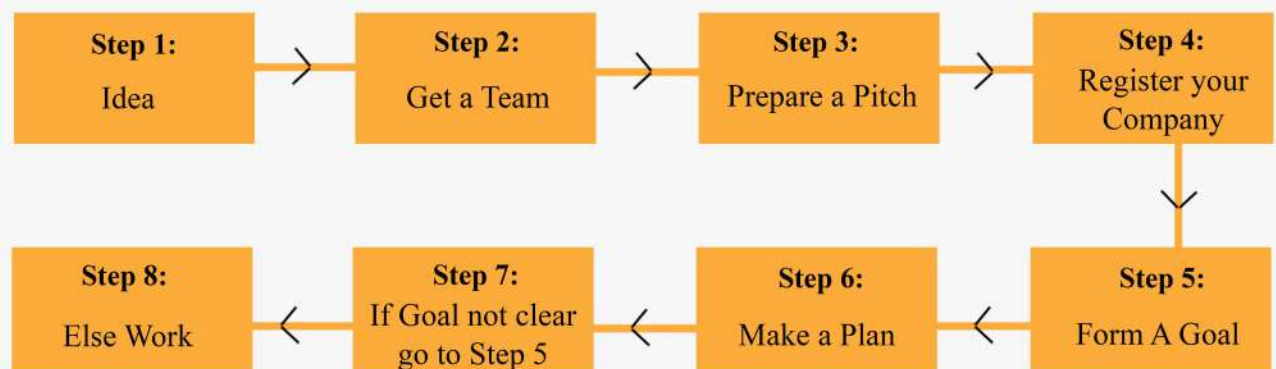
Why: Some might say it's a personal decision or 'man kiya' or 'mazza aayega' or 'money chahiye', but according to me if your primary motivation is listed above startup is not your cup of tea. These can only be secondary motivations. The driving force must be your vision.

When: A very crucial question. I will suggest to have a job for 3-4 years, earn some money and a lot of contacts, gather knowledge and then jump into the pool, ready to swim. Exceptions exist, but they always

come with a big price tag.

One more question is, when there is so much risk and hard work required, why to have your own venture rather than getting a respectable job with fixed income. The answer is simple, nothing can be achieved without hard work and the more you put yourself in a task, the more you get out of it. In your venture you have the authority to decide not only your goal but also the path that leads to it, and how to move forward on it. Like any other adventure it also gives you restless nights and thrilled days, but still a 'must go on' adventure.

I would like to conclude by informing you a bit about myself. I am co-founder of a startup named Virtualis World, which is working in the field of Internet of Things and Augmented Reality. Started as an opinion, we gradually become an idea and are close to being a reality. 🌐



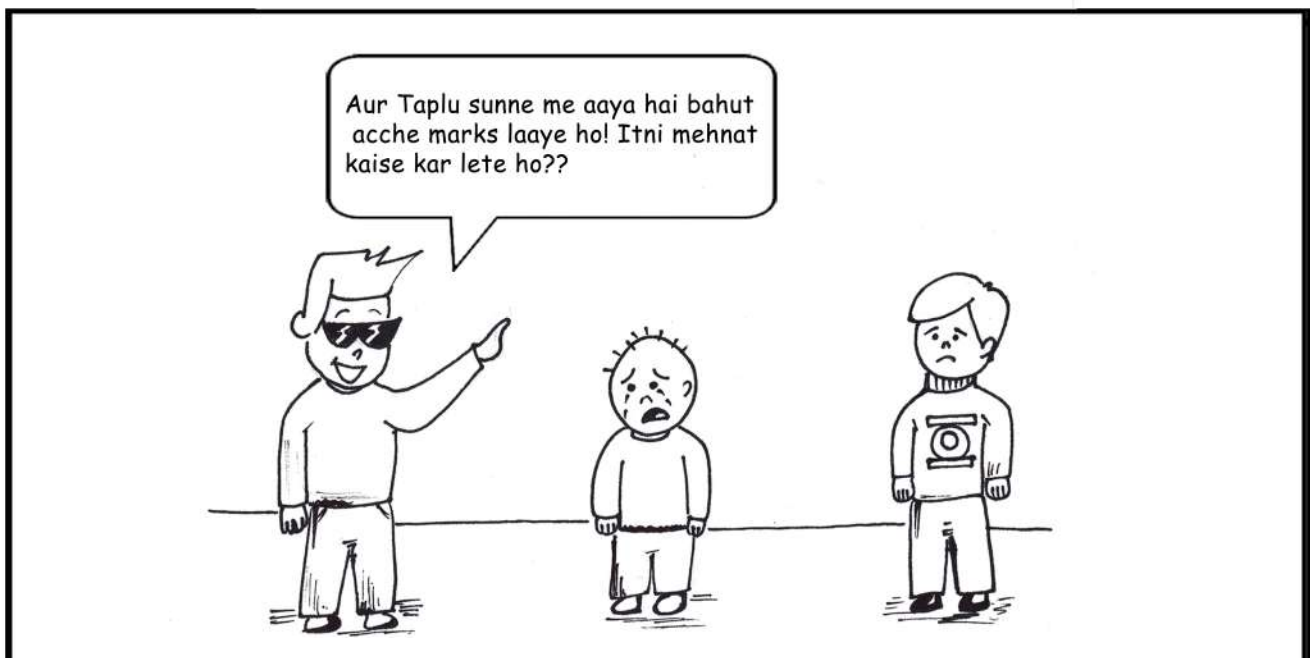
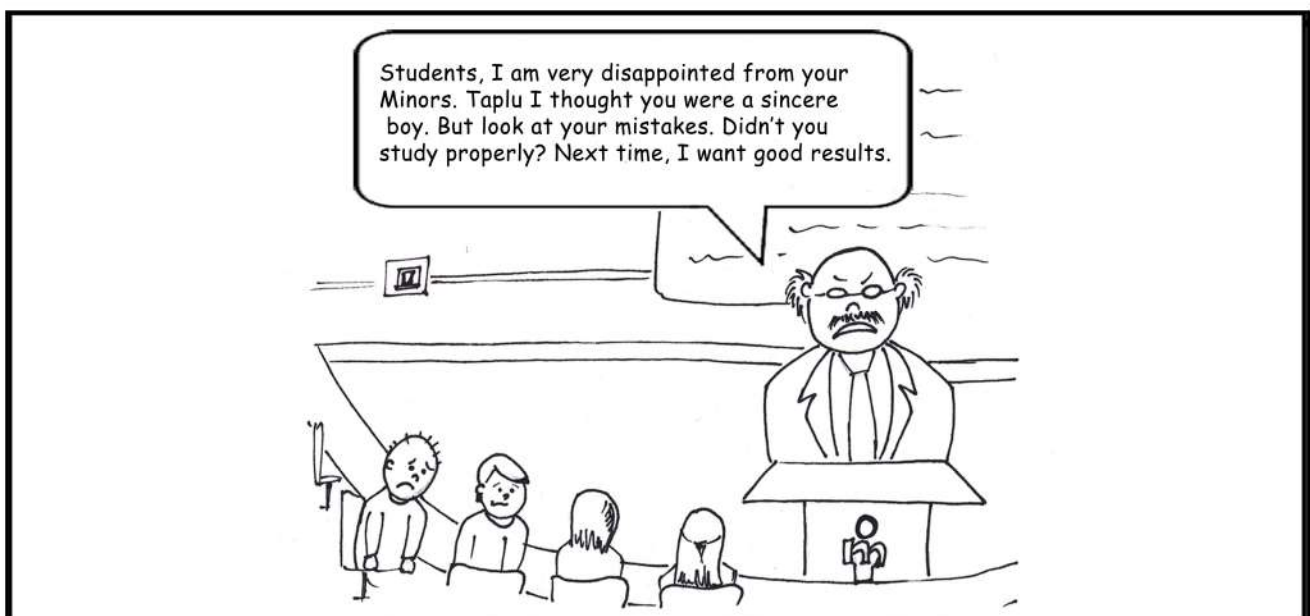


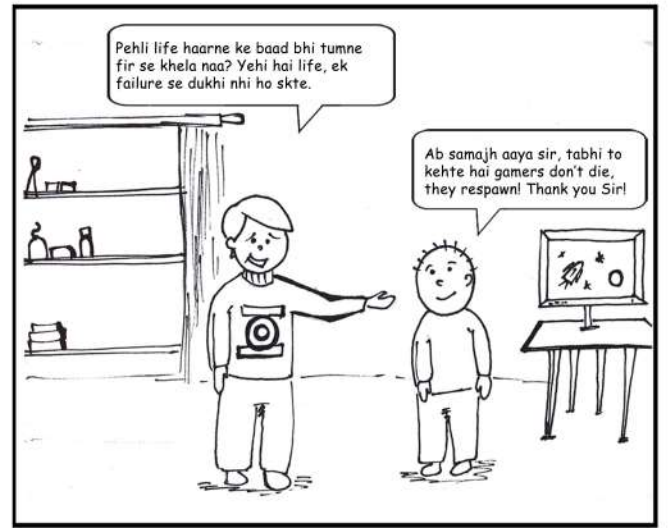
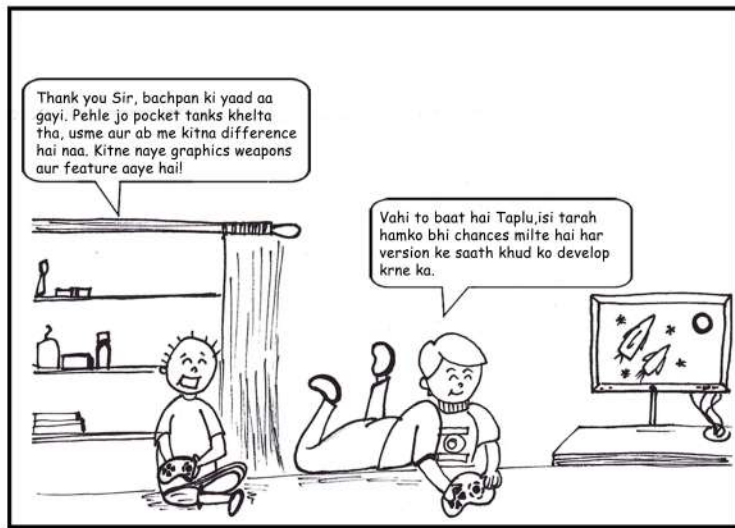
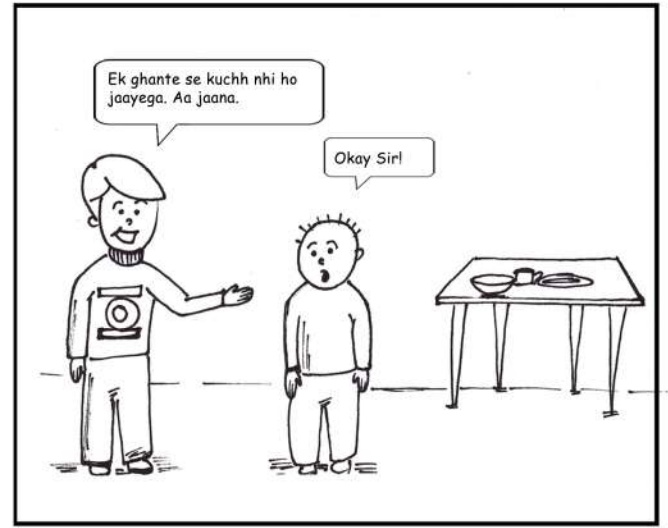
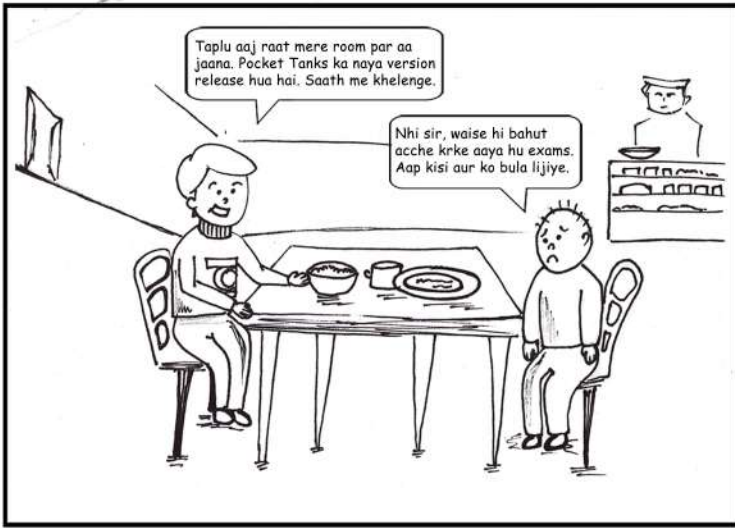
**TEAM
AASF**

Friends Fun & Dreams

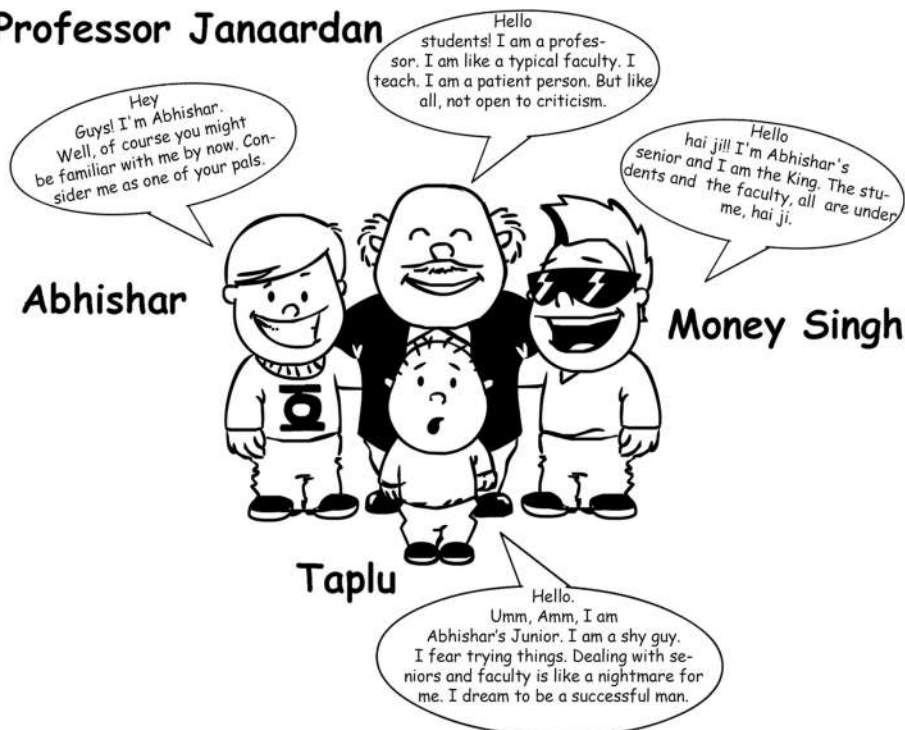
Abhishar is a good friend of students. He listens to their thoughts and experiences. Abhishar tries to chalk out easy solutions for students' problems. They feel motivated on talking to him to showcase their hidden talents. Personally, we feel he carries with him a very positive air and is capable of 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 Ms. Nikita Sharma, IPG-2016, for her valuable efforts in realising Abhishar and his friends in "Friends Fun & Dreams". We couldn't have done it without her.





Professor Janaardan





One of the most common problems in this modern society is the problem of not having enough money. This can happen to the majority of the people. Many Philosophers used to emphasize that although money is not everything, it is as important as oxygen to mankind. They said this tongue in cheek but it is so true. Money is important since it brings us comfort and valuable resources. We can use these resources that money can buy to exchange for a lot of things. For example time, or materials needed for our personal development. Some people say that money is the root of all evils. They might have remembered it wrong from the Bible. Actually, the Bible said the love of money is the root of all evils. We need to distinguish between the two.

Not everybody is successful financially. Actually, only a handful of people can do it. Although capitalism allows us to accumulate wealth according to our will and capability, most of the people still suffer from the lack of money some time or most of the time for some people. This article will talk about why personal finance is for everyone.

Personal finance is a subject which provides the art and-science of money spending and

one thing which I really love about it is that it really works, has the capacity to solve the real-life financial problem and can fix future financial uncertainty and it says how much you earn does not matter but what really matters is how do you spend that hard earned money. Therefore we need to learn the art of spending the hard earned money to gain financial stability.

There are a number of different reasons as to why a person should learn about personal finance, but it is perhaps understandable that most people cannot see these reasons for themselves. Personal finance is a difficult topic to learn about and for that reason a person just naturally tends to shy away from it, making excuses in an attempt to avoid having to learn about it. Well, personal finance is extremely important and here are some reasons why.

Money Flow

If you understand personal finance, then you will understand your money flow a lot better. There are a number of people that muddle through life paying their bills and their mortgage payment with the money that they have and then spending the rest of it or maybe letting it sit in their bank account. These are people that that have no idea how personal

finance works, so even if they end up making the right decisions they are doing it through luck.

While there is nothing inherently wrong with this particular approach, don't you think that you would feel much better if you knew exactly what was going on with your money flow? The old saying is that knowledge is power and if you know about your money flow, you arguably have the most important individual power that exists in the world.

Uncertainty and Fear

Human beings as a species have an irrational fear of uncertainty. In this respect, we are no different from any of the other mammalian species walking the planet, because all of them have been conditioned through thousands of generations of being eaten and killed to be afraid of what they don't know. Uncertainty and fear therefore go hand in hand and when they do this in relation to something as important to your basic survival as money, the paralyzing effect that fear can have on you is something that is not even pleasant to think about.

Compare this situation however to a situation where somebody knows about how their money flow works and understands their entire personal finance situation. This person is



not a person that is likely to be afraid, since there is no uncertainty involved with their financial situation. It is a lot easier to be afraid when you have no idea where your money is coming from and where it is going.

Utilization

If you truly understand personal finance, then another thing that you definitely should understand is utilization. A person who does not understand or appreciate personal finance is a person who is unlikely to save a lot of money. Instead they are

likely to spend whatever they are left with after monthly expenses on entertainment and impulse purchasing. While there is nothing wrong with being a consumer on this level, it is something that might hamper you later on in life when your income begins to dry up and you realize you have no prospects on the horizon.

If the person does not spend a lot and does not understand personal finance, the same thing could happen. While the money in your bank account is available to you instead of hav-

ing been spent on something impulsive, it is still not being utilized to its fullest extent.

Only a person with an understanding of personal finance would know that money being saved should at the very minimum be placed in a high-interest savings account and later on should also probably be invested in things that yield a much higher interest rate. This difference in understanding and ultimately in utilization comes specifically from an understanding of personal finance. 🤖

INDUSTRY PROFILE: STEVE JOBS (APPLE'S GENIUS)

-Steve Jobs (February 24,1955 - October 5,2011) was co-founder, chairman and CEO of Apple Inc. His impact on the technology industry, entertainment, advertising and pop culture was vast and he leaves behind an empire that is changing the way we all live and work.

-It all started with three men - Steve Jobs, Steve Wozniak and Mike Markkula - who together in the late 1970's designed and marketed the Apple II series of computers. It was the first commercially successful line of personal computers and led to the Apple Lisa in 1983 - the first computer to use a mouse-driven GUI (graphical user interface).

-In 2010, after many variations of the iPhone, the iPad was launched to an initially mediocre reception. People and focus groups didn't see the need for it, but Steve Jobs knew it was going to have a big impact. And it did. By March of 2011, over 15 million iPads were in the market.

-The health of Steve Jobs had been in question since around 2006, when his gaunt, frail appearance and lackluster delivery were the focus of his WWDC keynote address. Between 2003 and his death in August 2011, Jobs underwent many procedures and therapies to try and beat the cancer, but it was too aggressive. He stepped down as CEO of Apple on August 24 th, 2011, and died just a few weeks later on September 11th.





A hectic day, numerous projects, an amount of chaos and confusion, a cup of coffee, a curious mind, an internet connection and chrome, a google search bar reading “The maths of chaos” and the tick of pressing the enter key forms the ingredient of the hurriedly cooked article which is being served to you at the moment.

Though my faith in the efficiency of google never lets my instinct expect an empty search result for the query, but I was amazed to look at the topmost result reading “The Chaos Theory”. A random search had a concrete outcome. The wikipedia article contained the following-

“Chaos’ is an interdisciplinary theory stating that within the apparent randomness of chaotic complex systems, there are underlying patterns. The butterfly effect describes how a small change in one state of a deterministic nonlinear system can result in large differences in a later state.”

Basically, Chaos Theory meant that you’ll never be able to predict the exact future. But there was a new term to explore about - “the butterfly effect”. This term’s explanation consisted of a perplexing example. It read -

“ **It is a mathematical phenomenon in chaos theory referred to as sensitive**

dependence on initial conditions. Example is a butterfly flapping its wings in Brazil can cause a tornado in Texas.”

The text had other examples of the fancy term from the history. According to the examples, Henry Tandey was in France in 1918, fighting to gain control of Marcoing, and saw one injured German soldier trying to flee. Because he was injured Tandey could not bear to kill him so let him go. The man was Adolf Hitler. The man’s kindness had caused the Holocaust. Not only this incident, there’s one more to accompany it. In 1905, a young man applied to the Academy of Fine Arts in Vienna, unfortunately for him and us, he was rejected, twice. That aspiring art student was Adolf Hitler, who after his rejection, was forced to live in the slums of the city and his anti-Semitism grew. He joined the German Army instead of fulfilling his dreams as an artist and the rest is what we read in history as World War II.

Small, inconsiderable events framed the history we read. Quite convinced with the idea, I began figuring out some examples of the “butterfly effect” from our lives. Even the insignificant actions I take while shuffling the deck of cards, can have a tremendous impact. There is a high possibility that

the permutation of the cards has not been seen before in time and the probability of getting it again in the near future is minimal. Thus, by simply shuffling few cards, I have created history.

So, a bit of unoriented googling and I had come across a new theory. The word “Chaos” did persuade me to think “Does chaos also guide the most complex entity in the entire universe, whose weight we carry on our shoulders, our brain? The next phrase in the search bar read, “brain and chaos”.

The main task of our brain is to avoid and protect us from chaos. Surprisingly, it exploits the same chaos to protect us. The inference from the results erased the concept of brain as a structured and organised thinking machine. Given that billions of neurons in our brain are resting and firing, chaos in our nervous system is unavoidable. **More generally, chaos could grant our brains a great deal of computational power, by exploring many possibilities at great speed and arriving at valid conclusions.**

“Then, isn’t too much of chaos harmful to the functionality of our minds?” Yes, it is! The nervous system has both chaotic and non-chaotic states: the non-chaotic elements monitor the chaotic elements (which are



reacting to the chaotic nature of the universe) and then react when the chaos enters a certain state. **“Our Consciousness is may be the product of carefully balanced chaos”.**

I geared ahead to a structured brain exercise while putting an end to the random jumps my thoughts were experiencing due to the unpremeditated google search sessions. I relaxed my browser of the weight of all previously opened tabs and a fresh tab was loaded with a game of “chess”. Just two moves against the chess AI Agent, and the information collected a few minutes before resurfaced in my mind accompanied with a small question “Is the field of computer science driven by chaos too ?”.

By this time I had graduated to a level to answer this question for myself. Yes! It definitely is guided by chaos. The AI agent which plays chess against me, might have been trained using artificial neural networks. Every time, I tend to change the the network architecture by modifying the no of hidden layers, neurons, the propagation mechanisms, I am just modifying the intial conditions. This neuron, after having been given this initial stimulus, fires itself repeatedly. A change in the network and the neuron not only gets the input stimulus, but also gets the stimulus that has been feeding back. This small change may pro-

duce a response to a given input that did not occur the first time that input was presented.

Not only the AI development for the game is chaotic, the game environments are themselves inherently the unpredictable ones. Involving too much realistic physics and object dynamics, the game designing is also challenge. The programming of the objects to dash, spawn monsters, jump etc, is supposed to follow an ordered structure that produces straightforward effects. But as game designs become more and more complicated, “The butterfly effect becomes very obvious”. This knowledge is useful in monitoring the behaviour of the game entities in comparison to the predicted value and keep a automated determinism check. Steadily, I realised that the complex recursive algorithms that were being used to devise solution to the complex problems were based on the concept of chaos. The property of the real systems to return to their intial conditions, while being sensitive to the intial parameters. This is what we always do defining the base case in recursive algorithms, assuming every instance of the problem will ultimately arrive to that case, after an array of chaotic computation of the intermediate cases. Then there were blurred recollections from the cryptography lectures which helped to define one

more crucial application. The prime task in encryption is to introduce confusion.

With all this we had enough of the technical introspection, to satiate the naive query.

I believe that your biological networks might have got spinned enough to synonymize “chaos” and “randomness”.

With enough of theoretical and mathematical research, I could then begin to identify the fancy term of “butterfly effect” in my daily lives. From, the innumerable losses I suffered due to the snoozing my alarm for 5 minutes and ultimately ending up sleeping for two more hours, to the strength I developed by pushing myself for swimming 4 more laps of the pool, the indispensable facts which I may gather by reading for 3 minutes a day, the huge number of minutes I may save by deleting 2 distracting apps from my phone, the 1 decision of not giving in difficult situations can have infinte consequences, which ultimately shape my life. Ultimately, I had a last flashback to a bright sunday, a show with good reviews and imdb rating, and I recall the words - “Chaos isn't a pit. Chaos is a ladder. Many who try to climb it fail and never get to try again. The fall breaks them. And some, are given a chance to climb and they refuse. Only the ladder is real. The climb is all there is.” 🎮





A number of things are found in the world and in the minds and actions of its inhabitants. The world is full of number of things that we can all be as happy as kings. Happiness, not sure. But it's certainly full of number of things- wealth and poverty, cut-down lands and forests, war and deaths, governments and taxes. As such full of ideas, praise and small talk, religion and politics and many other kinds. I simply wish to set the record straight- there are many things. We never know what will turn up. Every one of us is by far the product of all such things and it does have a profound effect on what we are and what we see ourselves to be.

Religion and politics when intertwined are such an inflammatory issue.

Stir up a debate and people get ready to create riot or drop bombs. People jump right onto social media all trying to prove their insightful thoughts. Such things 'hardly' take us anywhere - maybe a feeling of contentment- if that's all we want. Everyone rides on the fact that everyone has their right of opinion however there is a difference between mindless criticism and constructive debate, losing out on the latter. There is a line between patriotism and chauvinism, embrac-

ing the latter. All these religious or political groups are meant to divide us so that it's easy to rule us. Their followers are like addict, all having their dopamine of ignorance. Instead of worshipping high praises worship deeds and pioneers.. But, rather those who claim to carry the beacon of moral leadership are themselves indulged in misogyny and sexism. A Meryl Streep reference from this year's Golden Globe fits here - "Disrespect invites Disrespect, Violence incites Violence. When the powerful use their position to bully others, we all lose".

All the candidates talking about all sorts of things they are going to do. The truth is, it just doesn't work anymore. The times where we could simply outsource responsibility for our lives to big corporations is ending one day at a time. The government won't be able to help us anymore. They're either busy getting into wars, fighting terrorism, making sure that some of the biggest companies in their countries won't go bankrupt while at the same time trying to figure out the same for themselves. Politicians won't be able to help us anymore. They're busy helping themselves and trying to figure out how they can keep their jobs for as long as they can. All

these things render democracy overrated. Seasons change, same ignorance remains and the world keeps spinning around. We're designing new ways to off ourselves, and no one seems to be worried about it. I am baffled of how definitions are getting changed overtime. Understand this. Dumbbells in a gym never made a man. Hurling abuses never made a man. Staring contests with friends never made a man. There can be no reality in the world until we hold on to our credo as much as we proclaim ourselves to be made of it. Never apologize for who you are. Are you even yourself if you don't have your values or opinions? Again, understand this. Getting stoned never made a man. Banal talks never made a man. I am stunned how solitude is underrated. It's a misfortune to lose this capacity and to get caught up in the crowd, to surrender one's singularity. We must seek refuge from the cacophony of the crowd, break through the noise and hear ourselves think. A quiet life has its own reward, and it's one worth celebrating. Sometimes, things happen according to our time, our clock. We may look at people around us and some may seem to be ahead or behind. It's their clock. You are not falling



clock. You are not falling behind; it's just not your time. Rather than switching to compromise, stick to the things on your mind. Navigating our life based on other's people decisions and ambitions or succumbing to peer-pressure is one of the worst we can do. Dying on your sword is better than someone else's. Anytime! There are no hard-written rules or perfect time to guarantee to get what we want. No time we will be 100% sure to dive into something. Sometimes, taking a break and doing decisions according to our own time is the best thing to do. During that many of them over the course of time. Overtime, we get our wires crossed. Life happens and mistakes are made. With time, we can contemplate and get close to the real thing.

Spending some time in that shepherd's hut on the roadside can impart a different kind of wisdom than we could ever get in this constant hammering of rushing through everything. It's not fancy and it's not comfortable. By playing it safe, we derail ourselves from a number of things. Instead, go after it. Take your time according to your clock. Crash and burn. Maybe we'll have the greatest adventure we could ever imagine. The heaven shines upon those who have the courage to chase their dreams.

We meet many people and never realise their importance. We are blinded by the belief that we are going to meet many of them over the course of time. Overtime, we get our wires crossed. Life happens and mistakes are made. Bad decisions

and fear creep into the mind of people around you and people often act in the strangest of ways. But it doesn't mean they don't care. They do, in different ways, but they do. Whether it's the Mumbai Blues or California Sun and the walls are crumbling down around you, you know in the back of your ear, they are there. At that point, you get to see who belongs in your life. The ones who want to be will be there and the ones who don't will fade away. We live in a world where everyone is out for themselves. Hold onto those who go hard on you despite all your flaws.

We have to carry ourselves anyway, 'cause when the day ends, the world still keeps spinning around. ...what about you? 🍷



A D I E U

Bidding an adieu is never so easy. Spent the most wonderful five years of life with the most amazing people. Will thoroughly miss each and every tiny details of ABV-IIITM. And cherish and treasure the eccentric memories and vivacious bond till eternity.

-Bhakti Netke



My Journey of IIITM started with getting "2013IPG-06" as my roll no. IPG-06 had a reputation of being the best programmer from the batch. So I had to carry that legacy and I was quite successful in doing that. I got the award of "Emerging programmer from first year". When we(Akshay, Amandeep and Arpan) were in first year, we found that many people were just talking about problems so we started "Uthaan" club with the aim to improve the image of IIITM. As the time passed on we were involved in many activities from Hindi Pakhwada to coordination of alumni meet. This institute made me the person what I am today and it will be my duty to serve this institute in the best possible way.

-Akshay Goel



They say college will be the best years of your life, and let's be honest: they're 100 percent right!

No matter where we will be, we will always miss our college campus, nonsense talks, tasteless canteen, group study, birthday parties, boring lectures and lovely juniors :P . Long live Necromancers!! ;)

-Aman Sachan

Into the final year of our college, I still wonder sometimes how did I befriend these idiots. So many different characters, different habits. Some very sweet memories and some bitter ones.

To all the final year guys,

You get a strange feeling when you're about to leave a place you have spent for the last 5 years or so. Like you'll not only miss the people you love, but you'll also miss the person you are. Because you know that you will never be like this again. When the Sun says goodbye to earth, it leaves a beautiful sunset as gift. So, take the final year as sunset and enjoy whatever you can in the few months you have. . Make it a memorable sunset. And remember, the sun sets only to rise again. So does our friendship.

- Cherupally Avinash



A PG degree is not the only thing we came here for and that's not the only thing we are leaving with. A common choice of the Institute brought us under one roof but our passion for stuff, our upright anger and insanity is what brought us together. As days passed by we have lived together, fests, movies, fights, bunks, and a lot of memories. So here is to some amazing times with some hard-headed but amazing bunch of different people.

-Anshul Prasad



College is a place I will always remember as somewhere where I started over with new friends and something that was completely mine. The walks accompanied with "antakshari", binge-watching movies, pulling off the 'dress-code' (even outside the college premises) #likeaboss are some of the unforgettable memories. Thanks for the memories and friendships! Will sign-off saying, enjoy your college life and have as much fun as you can, while you are still here. :D

-Kriti Poddar

This journey is not going anywhere from us. It is alive forever. The ups and downs have given us too much of zeal and zest that it's really going to be hard to bid goodbye to you all. We aspire to be a part of India's progress and hope the same for you all. We love you all and we won't miss none of you because you all would always be close.

-Anni Gupta



The journey of five years has been more than exciting. Starting from interaction to bunking of classes, late night movies, filling last page of copy with some random shit during lecture, studying 2 days before exams and running to find notes, is what all IIITM has provided as a great memory of life. The message to all freshers is to enjoy your all years to the fullest. These years won't come back. Hard work vagarah to hota rehta hai. Maze karo.

-Riddhi Gupta

It has been a journey full of ups and down. College life has transformed us completely as a person and also created life-long bonds and friendship. It is not an end but beginning of a new era where we face the world together and stronger than ever.

-Sarthak Joshi



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Gaming has flourished as one of the most profitable entertainment industries in the world since its commercial birth as a technological oddity at a science fair. Gaming has become passion for many and after the revolution in mobile technology the doors have been opened to a new generation of gamers. Gaming has become so integrated with modern popular culture that now even grandmas know what Angry Birds & Candy Crush is. But have you ever wondered how these games are build or how they come across such ideas or simply you never thought about this, just focused on your game? Everyone wants to become a passionate gamer but for that we want some developers to make such interesting games. So, now we will talk about game development and try to access that back-end world.

Game development must sound fascinating but only fascination will lead you nowhere. Nowadays what people are doing repeatedly wrong is that they want to make game like GTA V from the start but we have to understand that for learning any new stuff we should start from scratch, that is, make few small games with creative idea and dedication then dive into medium sized. Today there are more tools and possibilities for making games than ever, and less barriers

standing in the way of potential creators.

What you'll need to get started are:-

- Idea-Today the first step towards success is that your creative idea should be effective and efficient. So, basically according to the movies language it should be a million dollar idea.

- Passion-You've gotto make it happen. Only go forward with a project you really care about. Realize that it's a commitment, and if that commitment isn't exciting it may need some more thought.

- Game Engine-It is a software framework designed for the creation of games. Developers use them to create games for consoles, mobile devices and desktop. These game engines are programs made specifically to create games, which keep as much of that long ghastly code stuff as possible out of sight in favour of more natural user interfaces, so you can concentrate on things that will actually be relevant to players.

Game engine includes a rendering engine, physics engine, sound, animation, scripting, artificial intelligence, scene, graph,threading, etc. Two good options for two-dimensional games are the aptly named GameMaker (download it from www.yoyogames.com) and

Construct2 (download it from www.scirra.com). Both allow anyone to build games-no coding required just simple "Drag and Drop". Both have free versions with tutorials (on the website mentioned above plus thenewboston.com) which should be enough for beginner-to-intermediate projects.

Two good options for 3-dimensional games are Unity (you can download it from www.unity3d.com) and Unreal Engine (you can download it from www.unrealengine.com). Unity is a cross-platform game engine that supports 2D and 3D graphics, drag and drop functionality and scripting through C# & Javascript. Tutorials for unity can be easily found on youtube and unity3d.com. Unreal Engine is also an all purpose game engine supporting 2D and 3D graphics, drag and drop functionality and scripting in C++. Its tutorials are available on youtube, thenewboston.com , unrealengine.com, [udemy](http://udemy.com) etc.

- Coding-Coding knowledge is required but not necessary. As I have already mentioned few Drag & Drop game engines in which no scripting is required but working on those engines will limit you to only few things for which they have already done scripting but if you want to build something



exciting then for making changes, article I have written for ac- fix it.
 knowledge of programming lan- cessing the world of game de-
 guage is a must. Hope there is no velopment and if there is any Cheers
 syntax, semantics error in this runtime error then you have to Happy Coding! 🍷

INVINCIBLE REALITY

ANIVESH PANJIYAR
2017-IMT



I can't believe that the leaves
 Started falling from the tree,
 The pain of world just left me
 Bemuse inside,
 I want to live a little bit more
 All right,
 But all the leaves have fallen down
 Leaving me stuck above the ground

Not able to conflict
 Not able to exert it
 Not able to face the reality
 In the world of our own (Without Reality)
 Invincible, Invincible, Invincible
 Reality!

And this feeling of desolation
 Press a pause on my heart-beat.
 I'm in control of you from inside.
 Our love is bittersweet,
 As strong as concrete,
 I don't want to compete...
 You made me a slave.

But I forgot that the seasons change,
 Conditions change, situations change.
 I don't know how to arrange, the derange,
 You're so strange.
 And everything is back to me again.

Not able to conflict
 Not able to exert it
 Not able to face the reality
 In the world of our own (Without Reality)
 Invincible, Invincible, Invincible Reality!





All of us have dreams, goals and things which we so ardently aspire to achieve in our lives, things which we feel define our being which render us feeling that, "This is what I have been incarnated for in this lifetime". I believe passion directly comes from that vision which we have for ourselves, the vision brings us back all time we seem to falter in our lives, the vision guides us, mentors us, it becomes our voice. Lao Tzu said, "The journey of 1000 steps begins with one first step". Isn't it funny that we pay attention to what we achieve after we have travelled those 1000 steps and in journey forget that 1000 steps consist of 1 step, repeated a thousand times? That something "big" is nothing but constructed from multiple "small" things, the genesis of "big victories" lies in "small achievements", the "small things of today" will become "the big things of tomorrow".

Well, this is my most recent lesson and observation from The School of Life. Everything that seemed "small" to me more than two years back are now the "big" things of my life and today I wonder wonder if there is anything worth labeling as "small". I no longer believe there is anything called as "small", it is a journey, it is a

part of that big journey. Let me put this into a context. Say there is a student 'A', she aspires for an Ivy League College. She applies for admission, confident that she will get an admission. Out of curiosity she also applies for an internship with an NGO, now that NGO stands nowhere in front of the college she has applied to. As fortune would have it, she gets admitted into the NGO and not into the college. The stroke that she played relating to NGO seems like a divine intervention in retrospect, two years have passed and she is still with the NGO. Everything that she aspired to learn, the NGO is teaching her. It is an interesting case. Two years down the line, she has learnt that there is no such thing as "small". The NGO is a milestone in that Ivy League College journey.

This is a very brief anecdote to send across a message that we often forget. The message that we must celebrate victories on our path to glory, the seemingly "small" victories. Because when we take all of them, they make a huge difference. An overweight person loses weight workout after workout, a runner increases his endurance run after run, a bodybuilder increases the pounds he can bench-press session after ses-

sion. Everyone starts somewhere, there is always a beginning point. But we often do not celebrate these milestones. I am not asking to bask in the glory of these victories and forget the Northern Star goal, all I intend to say is that we must learn to acknowledge when Universe answers in His ways, become more responsible with every milestone and more determined. So, do not get bogged down by the enormity of what you wish to achieve, understand that a step taken every single day is powerful, powerful than you can ever begin to imagine. Since you are in college, allow me to tell you that there is plenty of room for experimentation. Let these years be the most intense experimenting years of your lives. Life is all about experiments, the more the better.

I know you will relate to this, when it happens in your life and when it does you'll also tread ahead in your life with the wisdom that, "There are no small steps, small achievements or small things". Keep Dreaming! 🌈

Yeshoda Bhargava (IPG-2009) is a senior software engineer at Samsung Research Institute, Bengaluru.





AMAN AGARWAL
IPG-2013

CAMPUS TO CORPORATE: HOW LIFE CHANGED?

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It was the beginning of a new year. A year, for which majority of 2013IPG-ians waited for. We very well knew that we would be undergoing rigorous competition in the later part of this year to get a job offer. Yes, it was the onset of year 2017. But wait, before thinking anything about job, right now we had a different objective in our mind. We were looking for some industrial exposure in the upcoming summer break. An opportunity, where we can get to learn a lot and get our resume's stuffed in with some experience as well. So, we began a meticulous search for internship. We spent days and nights filling up applications on different sites, sending mails to professors of IITs for research internship. We even applied for some internships abroad, as dreams are endless and you never know what might come your way. The search was so intensive that when we typed "a" in our URL box it suggested us angel.co, when we typed "i", intershala.com was its suggestion.

After months of putting in efforts and undergoing several interviews, I got near to what I was looking for - "an internship in machine learning". Such hyped word machine learning is, that today everyone is looking to be a data scientist or

anything related to that. And I am not from a different league. So, after going through varied suggestions and thoughts I went for it. Bengaluru was my home for the next two months. Awesome weather and traffic welcomed me to the city with open hands. Following morning, my destination was Turtle Shell Technologies. Although it was around 10km from my friend's place, but that day it felt as if, every lane I travelling on was congested. After 2 hrs of my wearisome journey I reached the place. Being welcomed by a cheerful smile is all usual, and it happens with almost everyone. But to the contrary, I was welcomed by jumps and sniffing and a lot of licks. A Doberman(Pi) and a Labrador(Potato) jumped straight at me. Standing straight, I was shivering with fear. I was always afraid of dogs till that very moment. They had done their part. They had scrutinized a stranger, and now I was welcomed by cheerful smiles and laughs. After signing several policies of the company, I was briefed about the product the company was working on and about my project. I was literally dumbstruck, at both the things. Firstly, the product was itself so fascinating. They had developed a hardware product named

Dozee, which is a non-wearable health and wellness tracker that goes under the mattress and tracks heart, breath and sleep stages. Sounded so cool to me. That word "non-wearable" was the uniqueness of this product. And second thing was my project. They wanted me to implement snoring detection in the product, without the use of microphone. The project was supposed to be done from scratch. After going through the recent works done by other researchers on this topic, I finally found the key to it. It involved a lot of signal processing, which I hated for sure, but the learning other than that was massive. I was backed up and guided by several awesome people, who were not only master in tech but also their ideas were so vibrant, that sometimes I felt how could a person be so perfect.

Everything was going at a smooth pace and I was about to finish my first project for the company. I had got some good results with the algorithm which I coded, and they all were happy with my work. I think GOD was also supporting the cause, and was ready to give me "lesson of my life". It was a sunny Sunday morning, and the Co-founder of our company went to a lake to give Pi and Potato a good time. Pi and



ABHISHAR V7.0/CAREER_MANTRA

Potato were loving it and were a little too inside the lake, he went behind them worried. As he tried to pull them out of the lake, a crocodile attacked his left arm. He gave a hard hit at crocodile's head, and the crocodile went away, but with an arm in his jaw. By god's grace the dogs were safe, but he lost a limb. What happened following this is a life lesson for me. I went to meet him in the hospital after two days, and guess what, the environment in his room was so lively. He was cracking jokes and laughing. He was so determined and had

such a positive frame of mind that within a week and a half he was back to work. That day I felt, most of the times we get knocked down by even small things so easily, but this man is true inspiration.

I had a lifetime experience during those two months. It was complete fun working with them. Late night parties, adventure trips, chai pe charcha made it even more prodigious. At the end of two months I was successfully able to implement snoring detection for the product and I also worked on increasing the accuracy of their

heart beat algorithm. Melancholy it was time for bidding adieu to all those guys and Pi and Potato. I still remember the time when even the presence of a dog in my proximity petrified me, but that day I was crying and cuddling Pi and Potato. I wished if I could have them with me forever, but truth is always bitter. All in all, I must say, internships are always fun. The learning is exponential and you never know, we might get a job offer in the same company at the end of internship. Tried and Tested!! ☑️ 🍷

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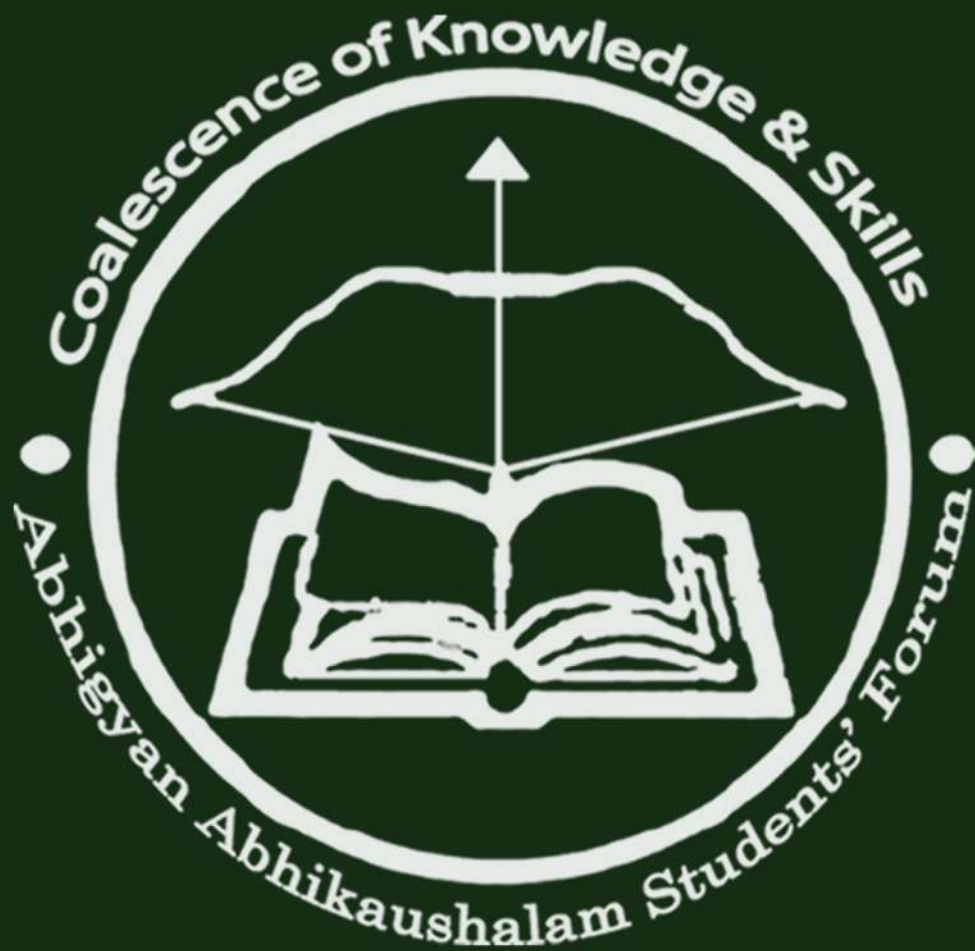
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