FEB-MAR'19

THE

BYTE'

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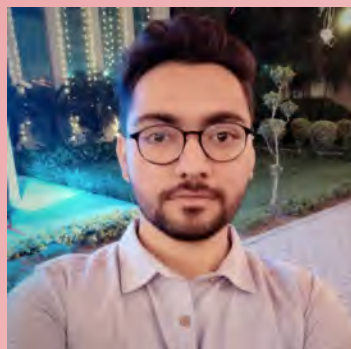
A MESSAGE FROM EDITORIAL DESK

It is with immense happiness that we place in the hands of our readers this edition of 'THE BYTE'. This magazine is a platform that exhibits the literary skills, innovative ideas of teachers and students. It was crazy when we started it but when it all come together, we were more than happy.

We express our considerable appreciation to all the authors of the articles in this magazine. These contributions have required a generous amount of time and effort. It is this willingness to share knowledge, concerns and special insights with fellow beings that has made this magazine possible. We hope you enjoy reading these articles, as seen through the IMS student's journalistic eye.

Thank you all!!

Vision and Mission of Institution and Department

INSTITUTE

Vision - Our vision is to impart vibrant, innovative and global education to make IMS the world leader in terms of excellence of education, research and to serve the nation in the 21st century.

Mission -
→ To develop IMSEC as a centre of Excellence in Technical and Management education.

→ To inculcate in its students, the qualities of Lewadership, Professionalism, Executive competence and corporate understanding.

→ To imbibe and enhance Human Values, Ethics and Morals in our students.

→ To transform students into Globally Competitive professionals.

DEPARTMENT

Vision - To be recognized as a Centre of Excellence imparting quality educa-tion and creating new opportunities for students to meet the challenges of technological development in Computer Science & Engineering.

Mission -
→ To promote technical proficiency by adopting effective teaching learning processes.

→ To provide environment & opportunity for students to bring out their inherent talents for all round development.

→ To promote latest technologies in Computer Science & Engineering and across disciplines in order to serve the needs of Industry, Government, Society and the scientific community.

→ To educate students to be Successful, Ethical and Effective problem-solvers and Life-Long learners who will contribute positively to the society.

PROGRAM EDUCATIONAL OBJECTIVES

Graduates of the program will be able to apply fundamental principles of mathematics, engineering, management, basic programming languages in problem understanding & formulating its solutions.

They will be aware of the role of computing in multiple disciplines.

• Graduates will learn to apply the principles of advanced computerprogramming & approaches, software engineering, projectmanagement, emerging techniques & tools while developing realworld computational solutions and projects. Graduates should alsolearn to collaborate & apply innovative aspects in problem solving.

• Graduates will enhance their technical, aptitude, communication & professional skills through value addition programs, project based learning, engineering events, self-learning, re-search, interaction with industry & alumni. Help our graduates to establish a productive Computer Science and Engineering career in Industry, Government or Academia.

• To promote the understanding of professionalism, ethics, social responsibilities among graduates. They will contribute to the society through active engagement with professional societies, schools, civic organizations or other

PROGRAM SPECIFIC OUTCOMES (PSO'S)

Student should learn to demonstrate the basic understanding ofComputer Science & Engineering fundamentals, programming,and professional/social ethics and apply mathematical foundations todesign & solve computational problems.

• Student should learn to apply analysis, design, development, testing & management principles in the developmentof computational solutions & software systems; He/she is expected tofunction effectively in development teams.

• Student is expected to gain enough value addition and technical expertise on latest industry specific skills through self learning & training. They are expected to have good communication skills with
correct attitude and aptitude.

• Students are expected to inspire for lifelong learning & do well in their professional careers. They are also expected to act as a good citizen by inculcating in them moral values & ethics.

ARTICLES

Beyond Your Ego and Fears

Dr. Pankaj Agarwal,
HOD, CSE

"Whenever something negative happens to you, there is a deep lesson concealed within it."~ Eckhart Tolle

The ego is an identity of our own construction, an identity which is false. If we take all the beliefs of what we are – beliefs about our personality, talents, and abilities – we have the structure of our ego. These talents, abilities and aspects of our personality will be attributes of our skills, but the mental construct of our "self" is artificial. And while this description might make the ego seem like a static thing, it is not. Rather, it is an active and dynamic part of our personalities, playing an immense role in creating emotional drama in our lives.

When we have thoughts about our self that we agree with we construct a self-image. The kinds of thoughts that contribute to the ego structure are:

"I'm not good at math."
"I am smart."
"My freckles make me ugly."
"Nobody likes me."
"I am better than you."
"That was stupid of me."

The ego hides behind the "I" and "me" in those declarative thoughts and statements about our identity. When we have such thoughts and agree with even the slightest conviction that these ideas define us, then we are building, or reinforcing, an ego. We first have these thoughts when we are kids, perhaps when we were teased on the playground, or when reprimanded or praised by a teacher or parent. In all cultures, developing a self-image is a normal part of socialization. Problems arise, however, when that self-image is negative, inaccurate, or even overly positive. Considering that we develop our concept of "self" as children, it is inevitable that our self-image doesn't map to reality as adults.

Though there aren't any defined methods to control your egos, however following some of these practices in life may help

Practice forgiveness & letting go.

"The weak can never forgive. Forgiveness is the attribute of the strong." — Mahatma Gandhi

- Make life easier by practicing forgiveness. We have to learn to forgive the people who hurt us and most importantly we have to learn to forgive ourselves.

- Accept, let go and keep moving forward. Forgiveness will open the windows to your soul, and remove the negativity to allow room for new happiness.

Practice honesty and being open.

"Too many people spend money they haven't earned, to buy things they don't want, to impress people they don't like." — Will Smith

- "The truth will set you free." Suppressing our emotions can develop depression and anxiety. Always seek the truth.

- Honesty provides us unconditional freedom to be connected with ourselves instead of trying to be something that we're not.

- Learn to say no to the things that don't add value in you're life, and open your arms and run towards the things that do.

Surrender your need for control.

- We are not our egos, we are not our jobs, we are not our material possessions, and we are not our achievements. Once you let your ego control your life, you will never be happy or relaxed because as soon as you lose one of the things that you identify with, the rest will fall like dominos and you will lose your happiness.
- Break the fears and trust life! Take risks. Be curious. Explore. Do what makes you happy. Try to do every day something that scares you and you'll start to feel happiness in the small things.

Enjoy silent moments with yourself.

- Create an every day routine to remind yourself why it's beautiful to be you. To know that you are enough.

- Everyday perform a selfless act of love, and enjoy giving without the expectation to receive.

- Take 5 minutes every day to be with yourself in silence, because sometimes in silence you can find the answers that the voices never can.

Practice gratitude.

"It's not happy people who are thankful; it's thankful people who are happy." — Unknown

- Take some time everyday to think about all the people, experiences, lessons and mistakes you are thankful for.

- Grateful people feel more love and compassion and feel more alive than those who don't.

- Appreciate everything and everyone and you'll discover true beauty in your life.

YOUNG INDIAN ENTREPRENEURS

The entrepreneur movement is spreading well beyond big cities and major universities in India, and is marked by a new seriousness and focus

Youngsters today are more assertive, plugged into the latest waves of online media, bold enough to test their ideas, and not worried about getting another job even if their startup ventures fail initially. The startup ecosystem in India is now amplified by a range of incubators, accelerators, investors, media resources, startup platforms, competitions, awards and even government grants.

Advait Thakur

15-year-old Indian tech prodigy, who started using computers at age six, launched his first website at age nine, and has been working with Google's AI and Cloud Platform for a couple of years now. **Advait `Thakur** is an Indian computer programmer and Teenage Internet entrepreneur. He is the founder of **Apex Infosys India** , and is currently its chief executive officer. He is Google, Bing and Hubspot Certified Professional. Ranked 4th in Wikia's Young Entrepreneurs Apex Infosys India is also involved primarily in Artificial Intelligence, Machine Learning & IOT Sector. In 2017, at age fourteen, he built "Technology Quiz," an app to help kids learn about Science & Technology which Actions

Advait Thakur
Founder & CEO of Apex Infosys India

On Google accepted after rejecting it five times. An incredible achievement for a child who loves to code but is largely self-taught. A programmer since he was eleven, Advait is one of the **youngest entrepreneurs and web developers in the world**.

Deepak Ravindran

He founded Quest technologies which lets people answer someone else's question which has been asked by a text message. His primary company was Innoz Technologies which was behind 'SmsGyan' handing internet's knowledge to people via texts. His latest venture is Lookup, which is a local commerce messaging app which lets users chat with local businesses and shops.

Farrhad Acidwalla

Starting at the age of 16 by borrowing 500 bucks from his father for buying a domain name and started building a web community particularly devoted to aviation and aero-modelling. After the website took off, he sold the community for a pretty high return. Today, he is the CEO of a web development, marketing, advertising and branding company called Rockstah Media. Despite being a very young company of 1 year, it has its own team of developers, marketers and designers across the globe.

Shravan Kumaran and Sanjay Kumaran

Perhaps India's youngest entrepreneurs, these 14 and 12 year old techie brothers are the founders of Go Dimensions, an app development unit they founded in 2011 in their home in Chennai. Over the years, they have developed eleven different apps that are available on the Apple App Store as well as the Google Play Store. The apps have received more than 35,000+ downloads. The two have given various presentations as IIM-B as well as at a TedX conference.

King Sidharth

King Sidharth is a speaker, author, magazine publisher, rad dude, and he's organizing a conference for teenagers called Createens. It will give young people an opportunity to learn about entrepreneurship, blogging, and more from world-wide experts.

Ritesh Agarwal

He is the man behind the 'Ola' for rooms, OYO Rooms. The start-up is a network of technology – enabled budget hotels. This Gurgaon-based company, was founded by him in 2012. It is backed by Light speed Ventures, Sequoia Capital and Green Oaks Capital and has more than 700 hotels under its brand. A college dropout who founded Oravel when he was 18 received its share of funding and accolades and later he rebranded it to OYO Rooms. He completed his higher schooling at St. Johns Senior Secondary School.

Arjun Rai

Since high school, Arjun has been an exemplary networker; he even worked on a few projects and startups of his own during the time. He became **COO** of a quickly growing online advertising company in 2010 but left it and is now eyeing to start up with **Odysseys Ads** offering solutions for the 21st-century marketers. Whilst he was graduating from New York Institute of Technology he had already started two successful startups, **The BizDen**, and **FuelBrite.com**. Inspired by the shows like "The big ideas with Donny Deutsch" motivated Arjun to think for ideas which changed the way we advertising and marketing in the tech space.

Trishneet Arora

At the age of 25, **Trishneet Arora** is an author, a self-described friendly hacker and the founder and CEO of cyber security startup TAC Security Solutions. The India-based company performs Vulnerability Assessment and Penetration Testing for corporates identifying weaknesses in their cyber security. He has received funding from angel investor Vijay Kedia and support from former VP of IBM, William May. In 2017, Arora was listed among the **50 Most Influential Young Indians** by GQ Magazine, while August 25, 2017 was proclaimed "**Trishneet Arora Day**", by the Mayor of Santa Fe, New Mexico. According to a 2017 report about him in Forbes India magazine, "Arora's CV reads far from perfect". One of the youngest 'ethical hackers' in the country, Arora was just 19 when he started TAC Security in 2013, the report said.

Kavita Shukla

The R&D for **Kavita Shukla**'s company, **Fenugreen**, cost little more than a kid's science project--which, in fact, it was. At age 12, Shukla visited India, where a cup of her grandmother's homebrewed spice tea seemed to help her stave off the ill effects of accidentally drinking tap water. Returning home to Maryland, she spent several years trying to re-create that benefit, mixing kitchen spices in jars of pond water and then applying them to produce. Eventually she came up with the idea of infusing the spices into sheets of paper; she even created her own paper blend, using $25 worth of materials from a craft store. Now Fenugreen, based in Columbia, Maryland, makes a product that is at once humble and potentially transformative: spice-infused FreshPaper, which keeps food fresh by inhibiting bacterial and fungal growth. Shukla worked on her product throughout high school and college, investing her own money along the way.

BY,

Ms. Sapna Yadav
(ASSISTANT PROFESSOR,CSE)

The Hacker and Cyber Security

Cyber security is the technique of protecting computers, networks, programs and data from unauthorized access or attacks that are aimed for exploitation. Application security encompasses measures or counter-measures that are taken during the development life-cycle to protect applications from threats that can come through flaws in the application design, development, deployment, upgrade or maintenance.

The term hacker is usually used to describe a person that "hacks into" a computer system by circumventing security and entering into unauthorized areas. However, some people believe that hackers can be good or bad in the cyber world. In this new digital era, cyber security is the most imperative security people need to be worried about. The world is becoming one large link to World Wide Web and computer systems, thus is becoming ever more exposed to the threat of malicious hackers. While we do not know too much about the hackers themselves, most people understand the malicious damage they can accomplish to computers and networks. History has shown that there are different cultures in the hacker world that contributes to today's cyber world, but there are also the ones abuse it. They have both contributed in different ways in the created the history of the present-day internet.

Who would believe that the plague of today's computer hacking was developed at one of the most prestigious technological schools in the nation? At MIT (Massachusetts Institute of Technology), a collection of young and gifted students created the blueprint and got their name from the hacker, or phreakers, of the late 1800s who found amusement in using their skills to basically break into the growing telephone companies. These young MIT students' skills were developed initially from breaking into the original internet called the Arpanet (Himanen & Castells, 2001).

Computers became not only became the victim, but the delivery method or means that the hackers communicated. Hacking went main stream with the groups able to exchange information and access remote system with relative ease. Hacking became so popular among these groups, there was even a publication called the 2600 Magazine published. The magazine is still available today under the name of **2600: The Hacker Quarterly.**

Remember, hacking is skill, knowledge, and persistence. No tutorial on it. You need to know a ton of shit at the same time. Stay anonymous and don't get in jail. Hackers are supposed to help each other, so share your knowledge as it will benefit you both. Don't need to tell each other exactly how you do this and that, but an overview is fine.

While your computer is connected to the Internet, the malware a hacker has installed on your PC quietly transmits your personal and financial information without your knowledge or consent. Or, a computer predator may pounce on the private information you unwittingly revealed. In either case, they will be able to:

- Hijack your usernames and passwords

- Steal your money and open credit card and bank accounts in your name

- Ruin your credit

- Request new account Personal Identification Numbers (PINs) or additional credit cards

- Make purchases

- Add themselves or an alias that they control as an authorized user so it's easier to use your credit

Protect yourself while online

- Continually check the accuracy of personal accounts and deal with any discrepancies right away

- Use extreme caution when entering chat rooms or posting personal Web pages

- Limit the personal information you post on a personal Web pages

- Carefully monitor requests by online "friends" or acquaintances for predatory behavior

- Keep personal and financial information out of online conversations

- Use extreme caution when agreeing to meet an online "friend" or acquaintance in person

Security Tips to Prevent Hacking

- Use a 2-way firewall

- Update your operating system regularly

- Increase your browser security settings

- Avoid questionable Web sites

- Only download software from sites you trust. Carefully evaluate free software and file-sharing applications before downloading them.

Practice safe email and virus/malware protocols

- Don't open messages from unknown senders

- Immediately delete messages you suspect to be spam

- Make sure that you have the best security software products installed on your PC:

- Use antivirus protection

- Get antispyware software protection

- Use and abuse your Social Security number

- Sell your information to other parties who will use it for illicit or illegal purposes

Predators who stalk people while online can pose a serious physical threat. Using extreme caution when agreeing to meet an online "friend" or acquaintance in person is always the best way to keep safe.

COMMON CYBER THREATS

Cyber threats are in the headlines and possibly in your network. Here are some common forms of cyber threats to protect against.

RANSOMWARE malevolent software which locks user access by encrypting data using cryptovirology while extorting payment from the victim in order to de-encrypt and restore the files

MALWARE malicious software installed on a machine unknowingly and performs criminal actions for a third party

SPOOFING email messages sent from a fraudulent account masquerading as a legitimate and trusted source as an attempt to gain access to a user's system or confidential information

BOTNETS a "secret key" that provides entry to devices and connections to be controlled by an attacker for criminal purposes

TROJANS computer program containing destructive code disguised as harmless programming

DENIAL OF SERVICE (DDOS) floods bandwidth making online systems unavailable

WORM stand alone software which does not require a host program in order to propagate and replicate itself onto other networks and drives damaging data and software as it spreads

VIRUS a type of malware that when executed spreads from computer to computer by replicating its programming and infecting user programs and files to change the way they operate or to stop working altogether

ADWARE can redirect search requests or automatically render advertisements producing revenue for its creator

PHISHING a DNS server software vulnerability is exposed or a host file is swapped and a legitimate website is maliciously redirected to a scam site where unknowing visitors enter their confidential information

PHARMING a DNS server software vulnerability is exposed or a host file is swapped and a legitimate website is maliciously redirected to a scam site where unknowing visitors enter their confidential information

SPYWARE criminal malware on the hard drive used to covertly monitor user activities

BY,
DR. AVDHESH GUPTA

OPEN SOURCE?

This is what I'd tell someone who is not familiar with the concept and is just looking for the gist, not the details. Open Source is not the same as no-cost (free) software. Rather, it is idea that you can open the software to see what's in it, manipulate it, and make it yours. It's open to you, and that implies many more things about it that make it interesting and important.

First, let's get the terminology (high-level, forgive me for glossing over details for the sake of simplicity): Software engineers write something called source code and convert that into an executable. Source code is the human-readable instructions, and the executable is the version of the program the computer can run. Traditional software provides you with the executable alone, but not the source code. In fact, most companies considered their source code to be their secret, and clearly something they spent a lot of money to create. If they gave you the source, you could make your own version of their software for free.

Open Source is a licensing mechanism that grants you certain rights to the source code. Open Source means that you are making the source (design, code, ingredients, etc.) open for others to see, share, and improve. Many details come in to play: Depending on the specific open source license, the code may come with certain obligations that apply when you share the code with others. But at a high-level the following rights are most relevant to most:

- You can see the source code that was used to create the program.
- You can share the code with other people so that they can see it too.
- You can use the source code and modify it, or combine it with your source code to make something new, and you can share that with other people too.

These rights fundamentally changes the idea that source code is a secret. Imagine if instead of a secret recipe, you have a sharable one that can improve every time someone offers to make it better. Imagine if you could tap into people who have skills you don't have, and you could take their small contributions that make this code better. It would be worth sharing the code so that it improves at a faster rate than you alone could do.

You can apply the term to other fields. Imagine a restaurant that publishes the ingredients and instructions for their signature dishes -- and they give you permission to make these dishes at home. This is a form of open source. Note: The restaurant can still charge you for a meal, indeed you are paying for the experience, the waiters, their actual ingredients and time to prepare the dish. But they are sharing the blend of herbs and spices so that it is not a secret; you can see it and understand why it is so good. They might even allow you to share your variations of their dishes on their website -- so that you can make it your own.

BY,
NITISH SINGH

Bitcoin Price Surged Over $5,000 For The First Time This Year

Bitcoin has been in a lull in recent months. The largest cryptocurrency's price kept declining throughout 2018, finally finding a bottom at roughly $3,200 last December. Since then, it's been a slow and shaky climb upwards.

On Tuesday, however, the price of Bitcoin surged more than 15% in less than an hour. The price briefly surpassed $5,000 on some exchanges, but is now slowly declining and currently sits at $4680, according to CoinMarketCap.

Bitcoin's price is known to be volatile, but this surge is notable as Bitcoin hasn't come close to $5,000 since November 2018. Furthermore, the sudden rise brings back memories of 2017, when such enormous price increases were nothing out of the ordinary.

The reasons behind the price increase, as is often the case with Bitcoin, are hard to discern. The entire cryptocurrency space has steadily been making progress throughout 2018 and 2019 despite the negative price movement, but there haven't been any major new developments around Bitcoin that would prompt such a quick price jump. Notably, even Changpeng Zhao, the CEO of one of the largest cryptocurrency exchanges, Binance, appeared stumped by the price surge as well.

In fact, recent news has been fairly negative. A recent report by crypto index fund Bitwise had found that 95 percent of Bitcoin trading volume is fake. The United States Securities and Exchange Commission (SEC) delayed a decision on two possible Bitcoin ETF listings last week. And crypto exchange Bithumb was hacked to the tune of $13 million just last week.

The prices of other major cryptocurrencies, including Ethereum, XRP, EOS and Litecoin, all jumped considerably, though not as much as Bitcoin. The total market capitalization of all cryptocurrencies currently stands at $158 billion.

BY,

PRIYANSHU YADAV

APRIL FOOL'S DAY:

Biggest Tech Companies Making Us Drool Over Imaginary Innovations

April Fool's Day is that time when everyone is allowed to have a little more fun, and for tech companies, that is usually associated with a barrage of crazy announcements. In the past, we have seen brands announce totally unrelated products, to talking about crazy features that range from extremely futuristic to downright outrageous. Today, we take a look at what some of the biggest tech companies are toying with, for April Fool's Day 2019

GOOGLE

LENOVO

ONEPLUS

Google's Files app is a nifty little tool that makes searching and sorting of files faster, while also providing suggestions on how to clean up some of the clutter and free up space. This year, the Files app is gaining a new feature called Screen Cleaner, to keep your phone clean, inside vout. It harnesses the Smudge Detector API to precise any foreign pieces of dirt, and then uses their geometric dirt models and haptic micromovement generator to dislodge them. The vibration motor on the inside will go on a special mode to create a non-stick shield for the entire phone.

Lenovo's ideas revolve around the current state of the internet, with the InSight360, a laptop "that knows you better than you know yourself." This super smart computer can understand your mood with an ultra-sensitive keyboard that can also detect your pulse for better predictive text, so you don't end up saying typing something that will be regretted later. The display has a punch-hole Spy Shamer camera to expose the prying eyes on the internet. The 'Escape' key does exactly what the name suggests - pausing all the work and booking tickets for a nearby destination, by referring to Pinterest. It aims at making the life of professionals less stressful.

The Chinese smartphone giant has people waiting for its next flagship phone, but for the meantime, they have something even more droolworthy for us. With every major car manufacturer making a shift towards electric vehicles, seems like OnePlus did not want to be left out, and thus, the Warp Car came into existence. It addresses the major point of slow battery charging on EVs with a cool 270 miles of range in just 20 minutes. With an acceleration from 0-60 in just 3 seconds, there seems to be a lot to like about the OnePlus Warp Car.

RAZER

Razer, the gaming hardware company really cares about a person's gaming experience and understands how irritating it can get when someone disturbs you in the midst of an intense gaming session. Razer Ping aims to replace talking with people with a super contextual notification app. All you have to do is point your camera at anything in your surrounding, and it will suggest the best suited texts to send to your friends.It even includes a Lunch Master mode to inform your friends where you are headed for lunch, so you don't have to waste time on deciding where to eat! The entire objective is to optimise human conversation without wasting time.

NVIDIA

On the topic of gaming, Nvidia announced a revolutionary AI-powered holographic assistant called R.O.N., meant to improve your PC gaming experience. It can optimize your games, inform you about new releases, and even coach you during your gameplay based on your past performances. R.O.N. can even help you ease out your anger, with Nvidia's Rage Convertor technology, which turns on when you start losing your temper, and edits whatever you swear at your weak teammates into sugarcoated praise. For the nerds, R.O.N. can also argue with others online by pulling up necessary data and defeat them in keyboard battles. For a dedicated gamer, Nvidia might just have made the perfect companion.

As you must've noticed, most of these new features and products sound really cool, we really hope to see them in markets one day. Engineers should be let to be creative without constrains more often.

BY,
Priya Patel

TRENDS IN COMPUTER SCIENCE RESEARCH

There's never been a brighter outlook for young computer science students than today. As these recent stats show, computer science graduates have some of the highest starting salaries out there and are in such high demand that they can afford to be picky about the type of job and industry they opt for.And it's not hard to see why. Technology has been growing so exponentially over recent years, there has been a steadily increasing demand for bright graduates to come in and help to transform areas ranging from data infrastructure to cyber security. If you are interested in pursuing a career in computer science, it's important to stay up to date with the latest trends in computer science research, to make an informed choice about where to head next. Check out these five trends storming the tech industry!

Computer assisted education

The use of computers and software to assist education and/or training, computer-assisted education brings many benefits and has many uses. For students with learning disabilities, for instance, it can provide personalized instruction and enable students to learn at their own pace, freeing the teacher to devote more time to each individual. The field is still growing but promising, with many educators praising its ability to allow students to engage in active, independent and play-based learning.

Cyber security

According to 2014 data from Burning Glass, cyber security jobs in the US grew by 74% between 2007 and 2013 – more than twice the rate of IT jobs overall, and raising concerns about the shortfall in qualified graduates. In February 2015, President Barack Obama spoke of the need to "collaborate and explore partnerships that will help develop the best ways to bolster our cyber security." It's not hard to understand why he might think so. We live in a hyper-connected world, in which absolutely everything – from banking to dating to governmental infrastructure – is done online. In today's world, data protection is no longer optional, for either individuals or nations, making this another growing strand of computer science research.

Artificial intelligence and robotics

With the global robotics industry forecast to be worth US$38 billion by 2018, a large portion of this growth is down to the strength of interest and investment in artificial intelligence (AI) – one of the most controversial and intriguing areas of computer science research. The technology is still in its early stages, but tech giants like Facebook, Google and IBM are investing huge amounts of money and resources into AI research. There's certainly no shortage of opportunities to develop real-world applications of the technology, and there's immense scope for break-through moments in this field.

Bioinformatics

A fascinating application of big data, bioinformatics, or the use of programming and software development to build enormous datasets of biological information for research purposes, carries enormous potential. Linking big pharma companies with software companies, bioinformatics is growing in demand and offers good job prospects for computer science researchers and graduates interested in biology, medical technology, pharmaceuticals and computer information science.

Big data analytics

Back in 2012, the Harvard Business Review branded data science the 'coolest job' of the 21 century. Yes, you read that correctly. There has been a surge in demand for experts in this field and doubled efforts on the part of brands and agencies to boost salaries and attract data science talents. From banking to healthcare, big data analytics is everywhere, as companies increasingly attempt to make better use of the enormous datasets they have, in order to personalize and improve their services.

BY,
KRATI SINGH

MOTIVATION

IF YOU **WANT** **TO** MAKE **YOUR** DREAMS COME **TRUE,** **THE** FIRST **THING** **YOU HAVE** TO DO IS **WAKE UP.**

J. M. Power

Yes I can!

SELF CONFIDENCE
FIRST STEP TO SUCCESS

"Self confidence is the first requisite to great undertakings"
- Samuel Johnson

This world, in which we live, is a very competitive one. It is popularly described as a rat race, full of competent people and the fittest of them survives. Success is not a cake walk. One has to face lots of hardships and obstacles to taste success. The most important aspect in achieving success is self confidence. However, people are ambitious but not confident enough to go for it. Infact, most of them don't know how to go about it or are terrified to take risks in their lives.

Self confidence is not something which can be achieved in a day or two. Let us understand that we are not born with it. It's the situation we face, motivation from others and self motivation that make us truly confident. Hence those of us who feel that we lack confidence, have no reason to be upset.

There are 3 kinds of people. One, who dream big but do not have any idea how to pursue it. The second, who are over confident and end up ruining their opportunities. Lastly, the ones who are confident and have talent. This segment knows what they want and how to move further.

For attaining a goal, it is important to strive for it and work on the strategies relentlessly. It is necessary to make proper planning and follow up. We will come across ups and downs but should not lose focus and give up. Work hard throughout and be focused until the desired result is achieved. Now, the question arises as to what are the plans/strategies. At the outset, one has to be disciplined. It is not easy as it sounds, but, requires lot of commitment.

However, it is not impossible. Take good care of physique as it is very important when it comes to self confidence. Healthy food habits and proper sleep are very much essential. Since hard work is involved, it is imperative that we do not lose hope or be disheartened. Knowing who you are and what your strengths are, is an area that requires your utmost focus. However, it depends on how we perceive it. Everybody has flaws, but we have to shine through them. Don't lose hope, be patient, take care of oneself and work hard.

BY,
Mukhar bajpai

FAILURES ARE THE PILLARS OF SUCCESS

Man is destined to face challenges in life. Life is not always bed of roses. Obstacles and difficulties are bound to come in the way.All desire success.however, everybody does not succeed in achieving their goals.failures are a part of our lives. But one who keeps on striving is crowned with success,eventually.

Success is the result of hard work, firm determination and dedication.Sometimes,the attempts proves to be a failure.But failure is something very natural.It carries a treasure of invaluable experience.Success and failure are the two face of the same coin.

Every failure is a stepping stone to success. failure teaches us a lot.It reveals our weakness that must be overcome.It informs us to put in more effort.It reveals the weakness of our planning so never setback for ur failures.

Life is all about learning but never repeat the same mistake twice

-priyanka
Cs 2

What do you want to do with your life?

Its a question almost everyone asks themselves. Its a question i don't believe you should bother asking in the first place .

I worry a lot of people fall into the same trap. The trap of believing that they need to make big life decisions before they can start doing anything.The trap that you need to born with a passion.And the lie that being able to combine your interests with a profession is easy.

It didn't start with a dream. It didn't start with garage.It didn't even start with an innovative epiphany,which are entrepreneurs'most overplayed recollections"He continues,relating the story of jerry Kaplan's book start up.To which Ben adds,`I wish my epiphany was a primal.It wasn't and most aren't `

-Itika tyagi
Cs 2
`

He *couldn't crack IIT* but that didn't stop him from bagging a ₹1.2 crore *job in Google*

Fate had other plans for 21-year-old Abdullah Khan, who till about a few months ago, was preparing to join a 6 lakh per annum job offered to him through campus placement. But things took an unexpected turn and now, the BE (Computer Science) final year student is preparing to join Google's office in London.

Abdullah Khan's achievement has garnered immense applause from every quarter mainly because of the fact that he's not from IIT. After completing his schooling from Dubai, Abdullah moved to Mumbai and wrote IIT-JEE exam but couldn't crack it and had to join a private engineering college in Mumbai. "My score in JEE was not very impressive and I was not even shortlisted for JEE (Advanced) to get into IITs. But I was not disappointed as I wasn't even aware of the importance of IIT back then."

But his passion for coding and programming made him a regular participant in various online competitions where he was often ranked high. Little did he know that Google was watching his performance. In November last year, the 21-year-old received an email from Google which mentioned that the company was looking for people for certain profile and wanted them to join at several locations across Europe. Shocked at first, Khan shared the email with a friend who knew someone who had received a similar email.

"I used to participate as it was fun. I did not even know that firms check the programmers' profiles on such sites. "I showed the email to my friend who knew someone who had received such an email in the past. I am looking forward to joining their team. It will be an amazing learning experience for me." After a series of interviews, Google offered Khan a job in its London office. Khan will be joining Google's reliability engineering team.

His 1.2 crore package includes a base salary of 60,000 pounds (Rs 54.5 lakh), a 15 per cent bonus which will come to be around Rs Rs 81 lakh, and stock options worth $85,000 (around Rs 59 lakhs).

by,

Gaurav Singh

RIDDLE TIME

To break a bulb

Brainteaser: You have two light bulbs in a 100-story building. You want to find the floor at which the bulbs will break when dropped. Find the floor using the least number of drops.

This one is from Facebook for the position of a software engineer, though since it's on the net probably not anymore.

Answer: 16

Workings: You will need to start moving up the building in increments of floors for the first bulb. This could be 10 floors at a time, say. Once you find the point where the first bulb breaks, start again in smaller increments from the last previous incremental floor. So, say you went up in 10-floor increments and it breaks at floor 20, moves back to floor ten with the second bulb. Then start dropping in 1-floor increments. This will give you a worst case of 19. But we can improve on this.

Say you tried floor 16 first. Let's say it breaks. Go back to floor one and move up in one-floor increments (floors 1-15). This will give you a worst case of 16 drops, if floor 16 was the breaking point, for the second bulb, in the worst case. You can, of course, extend this principle if it doesn't break at floor 16. You could move to floor 31, 45, 58 etc. for the first bulb etc. Given the use of the same method, you'll always reach a worst case of 16 drops to find the floor.

Parking problems

Brainteaser: The probability of finding the parking slot occupied is 1/3. You find it empty for 9 consecutive days. Find the probability that it will be empty on the 10th day.

Another one from Google here, according to engineersnow.

Answer: 1/3

Workings: At first this may seem to be a trick question. With probability, you would be forgiven for thinking this, but often it's not. The fact it's been empty for 9 consecutive days doesn't influence the probability of it's "condition" on the 10th day

Plant your flag

Brainteaser: If you have a square room with no roof, and you had four flagpoles you had to plant on the walls so that each flagpole touched two walls, how would you do it?

This example of brainteasers for engineers is from Cisco from a Software Engineer there.

Answer: Put them in corners

Workings: Yup, you probably go this one off the bat. Plant them in the corners and by virtue, they are touching two walls each. They stated that "I wanted to pierce two walls with a pole horizontally too. They said it was an innovative solution."

Weighing things up

Brainteaser: Given 9 balls all of which weigh the same except for one, what is the minimum of weighings necessary to find the ball that weighs more (or less)?

Answer: 2

Workings: Theoretically you should be able to do this in two weighings, so long as its a two-pan balance. Firstly, take two pairs of three balls and weigh them first. If they balance, you know the "odd" ball is in the last three balls. From that group take two balls and weigh them against each other. Again if they balance it the last one remaining. If however, the first six balls don't balance grab the set that is lighter or heavier (depending on criteria). In this case, repeat the second step above.

How Many Zeros?

Brainteaser: How many trailing zeros are in the number 5! (5 factorial)?

Answer: 1 trailing zero

Workings: The factorial of 5 is 120. (5 x 4 x 3 x 2 x 1)

Apparently a favorite during an interview for a systems engineer at Google. This is a prime example of a brainteaser geared towards thinking the right way rather than getting it absolutely correct. If you were to calculate it in your mind through brute force, the interviewer would know that. Google suggests it might be easier to think of how many times a ten would be produced doing the sum, rather than the actual correct answer. Apparently, this would be more impressive.

Bittersweet

Brainteaser: You have 1,000 bottles of juice. One contains poison and tastes bitter. How do you find it in the smallest number of sips?

Answer: 10

Workings: Another one from Microsoft here, apparently. The answer is similar to some of the others on the list, but is about juice so it's different ok? Take a small sample from 500 of the bottles and take a sip. If it tastes bitter it's one of those if not it's the other 500. Then take samples from 250 of the 500 that tasted bitter and keep halving until you find the exact bottle.

BY,

SUYASH

PLACEMENTS

Congratulations on your well-deserved success

Roll Number	Name	Company 1	Company 2	Company 3
1414310033	ANANYA SINGH	CapitalVia		
1514310001	A RUPALI	TCS		
1514310003	ABHIJEET SHUKLA	Cognizant	WIPRO	
1514310005	ABHINAV KUMAR SINGH	Acxiom	NTT Data	
1514310006	ABHISHEK GUPTA	CapitalVia		
1514310008	ABHISHEK KUMAR PANDEY	CapitalVia		
1514310011	ABHISHEK RAI	TCS		
1514310013	ABHISHEK SETHI	GENPECT HeadStrong		
1514310014	ABHISHEK SINGH	Velocity Softwares	NTT Data	
1514310015	ABHISHEK SINGH CHAUHAN	TCS		
1514310016	ABHISHEK SINGH CHAUHAN	WIPRO		
1514310017	ABHISHEK TRIVEDI	CapitalVia		
1514310019	ADARSH KUMAR SINGH	TCS		
1514310020	ADITYA PANDEY	VVDN		
1514310022	ADITYA PRATAP SINGH	MobiliZeon	TCS	Global Logic
1514310023	AJAY SINGH CHAHAR	Cognizant		
1514310027	AKASH ROSHAN CHAURASIA	Velocity Softwares		
1514310028	AKHIL	TCS	WIPRO	
1514310029	AKHILESH KUMAR	360 Degree		
1514310031	AMAN GUPTA	CapitalVia		
1514310032	AMAN RATHORE	TCS	NTT Data	
1514310033	AMIT KUMAR	NTT Data		
1514310034	AMIT RANJAN	Cognizant		
1514310038	ANANT BHARDWAJ	CapitalVia		
1514310045	ANSHUL KUMAR SAROHA	MobiliZeon	IndiaMart	WIPRO
1514310046	ANUBHAV KUMAR VERMA	To The New		
1514310049	ANURAG SHAKYA	CapitalVia	WIPRO	
1514310051	ARCHIT CHATURVEDI	VVDN		
1514310053	ARPIT GARG	TCS		
1514310054	ARPIT KUMAR	360 Degree		
1514310056	ASHWANI KUMAR	Polestar	QA Infotech	Cognizant
1514310057	ASRAA AHMAD	WIPRO		
1514310059	AVIRAL RUHELA	QA Infotech	Mobilizeon	TCS
1514310060	AVNEESH JHA	TCS		
1514310061	AYUSH AGARWAL	Cognizant		
1514310063	AYUSH TRIPATHI	GINGERWEBS		
1514310065	BIPIN KUMAR YADAV	Algoworks		
1514310066	CHAKSHU	MobiliZeon		
1514310067	CHANCHAL KUMAR MISHRA	TCS		
1514310068	CHANDAN MISRA	CapitalVia	Cognizant	
1514310069	DEEKSHA PAL	Algoworks	CapitalVia	WIPRO

1514310071	DEVYANSH AGARWAL	QA Infotech	Mobilizeon	WIPRO
1514310072	DIKSHA KHURANA	TCS		
1514310073	DIVYANSH TIWARI	TCS		
1514310075	DIVYANSHU SRIVASTAVA	Polestar	Mobilizeon	NTT Data
1514310076	DUSHYANT SINGH	CapitalVia		
1514310077	GAURAV MISHRA	CapitalVia		
1514310078	GOVIND NARAYAN JHA	NTT Data		
1514310079	HARASHIT MITRA	Espire Infolabs	NTT DATA	
1514310080	HARI SHANKAR TIWARI	CapitalVia	WIPRO	
1514310081	HARSHIT KUMAR SINGH	Algoworks	WIPRO	
1514310082	HARSHIT GUPTA	CapitalVia		
1514310083	HARSHIT GUPTA	Cognizant		
1514310084	HARSHIT SARAN	NTT DATA		
1514310087	HRITIK AGRAWAL	VVDN		
1514310089	ISHIKA SHUKLA	Deloitte	TCS	
1514310096	KSHITIJ PRATAP SRIVASTAVA	To The New	WIPRO	
1514310097	KUMARI SWATI GUPTA	Cognizant		
1514310099	LABEEB AHMED	Deloitte		
1514310100	LAV AGARWAL	QA Infotech		
1514310102	LOKESH KUMAR TIWARI	TCS		
1514310103	MAGHVENDRA SINGH	WIPRO		
1514310104	MANDEEP SINGH	CapitalVia		
1514310105	MANISH BANSAL	TCS		
1514310106	MANNAT YADAV	GINGERWEBS		
1514310107	MANSI VARSHNEY	Espire Infolabs		
1514310108	MANVIR SINGH	TCS	WIPRO	
1514310110	MEGHNA RAJ SAXENA	TCS	WIPRO	
1514310114	MOHAMMAD WASIUDDIN	TCS		
1514310115	MOHD HILAL HUSAIN	WIPRO		
1514310118	MOHIT BHARDWAJ	TCS		
1514310126	NAVNEET SINGH MALIK	CapitalVia	Cognizant	
1514310127	NAVYA SRIVASTAVA	NTT Data		
1514310128	NEETISH SINGH	TCS		
1514310129	NEHA SHARMA	CapitalVia		
1514310132	NISHANT SRIVASTAVA	ANR Softwares	Algoworks	
1514310133	NITIKA KAPOOR	Espire Infolabs		
1514310135	NITIN SAHU	TCS		
1514310138	OJAS MODI	QA Infotech		
1514310139	OMVESH CHAUDHARY	CapitalVia		
1514310142	PRADEEP YADAV	TCS		
1514310144	PRANSHUL GOEL	TCS		
1514310145	PRASHANT CHAUHAN	TCS		
1514310146	PRASHANT SISODIYA	TCS		
1514310149	PRAVEEN TYAGI	PoleStar		
1514310150	PRIYAVRAT RAGHAV	TCS		
1514310154	RAJARSHI SAHU	TCS		

1514310155	RAJAT YADAV	Algoworks	CapitalVia	
1514310156	RAKSHIT CHAUDHARY	Trident	WIPRO	
1514310158	RANJEET RAI	CapitalVia		
1514310160	REEDAM CHOUDHARY	TCS	WIPRO	
1514310165	ROOPAK SINGH	TCS		
1514310167	RUPAL RATURI	Deloitte	TCS	
1514310168	SACHIN GUPTA	GINGERWEBS		
1514310171	SALMAN MUSHTAQUE	CapitalVia	WIPRO	
1514310177	SATYAM CHAURASIA	Cognizant		
1514310189	SHIVAM MAHENDRU	CapitalVia		
1514310190	SHIVAM RAI	TCS	NTT Data	
1514310192	SHIVANG BHATNAGAR	Acxiom	CapitalVia	WIPRO
1514310194	SHIVANSH SHRIVASTAVA	TCS		
1514310195	SHIVANSH SRIVASTAVA	TCS	NTT Data	
1514310197	SHREYA AGARWAL	Espire Infolabs	NTT Data	
1514310199	SHRISTY MAHESHWARI	Acxiom	CapitalVia	NTT Data
1514310200	SHUBHAM CHAURASIA	QA Infotech	TCS	
1514310206	SOUMYA GUPTA	TCS		
1514310207	SOURAV DAS	TCS		
1514310209	SRISHTI ROBIN	TCS		
1514310212	SURAJ GUPTA	Cognizant		
1514310215	SWARNIM VARSHNEY	Amazon		
1514310216	SYED ABBAS HAIDER	CapitalVia		
1514310220	UJJAWAL GOEL	Algoworks		
1514310221	URVASHI TYAGI	Cognizant		
1514310223	UTKARSH UPADHYAY	NTT Data		
1514310227	VAIBHAV KAPIL	CapitalVia	NTT Data	
1514310230	VARUN TYAGI	TCS		
1514310231	VASU AWASTHI	TCS		
1514310232	VIBHAV KUMAR	WIPRO		
1514310235	VIKAS KUMAR MISHRA	Espire Infolabs	NTT Data	
1514310239	VINEET YADAV	TCS		
1514310241	VISHAL AGRAWAL	TCS		
1514310242	VISHAL SINGH	NTT Data		
1514310243	VISHAL SINGH	TCS		
1514310244	VRINDA SHARMA	TCS	Cognizant	
1514310245	VYOM MADHUR	TCS		
1514310247	YASH PRATAP SINGH	CapitalVia	NTT Data	
1514321017	ANISH ANAND	TCS		
1514321051	MANVENDRA SINGH	WIPRO		
1514331006	ADDI	CapitalVia		
1514331037	HIMANSHU CHAUHAN	QA Infotech		
1514331042	JAGVEER	TCS		
1514340027	ANAND KUMAR SINGH	CapitalVia		

EVENTS

IMS Engineering college organized Alumni meet on 30 March 2019 at College campus. The function was inaugurated by Dean Academics, HoD's and along with other alumni present in the function by lighting of the lamp. Dr Rahul Dayal, Dean Academics welcomed the gathering and in his address. He stressed upon the importance of alumni meet to motivate the present students to achieve greater heights in their life. More than 100 alumni participated in the meet. The ceremony was followed by a special interactive session between Alumni and present students from final year

Most of the students raised queries related to jobs, changing career paths, how to fine-tune their career goals, and run a successful start-up. When asked about changing industry/ functional area, the alumni community advised the students that while studying in a college is the best time to change the industry or area. On being asked about working for a long term in a company or moving to

a different position based on pay, alumni community strongly recommended the students to shift their focus to the long term as it helps an individual to progress much better, both skill wise and financially.

To cheer-up the alumni, a special stand - up comedy, solo dance, group dance and skit was performed by present students.

One of the key highlights of the ceremony was Mr. Kushal Johri and Mr. Gaurav Kumar who were elected as Presisdent and Vice Presisdent respectively for year 2019-20 of IMSEC Alumni Association. Mr. Gaurav Kumar was also awarded as a star performer alumni.

Every alumni present acknowledged the fact that IMSEC is continuing and carrying forward the old mission of imparting true education and serving the nation in true sense and producing Skillful Citizens .

EXTEMPORE EVENT

was organized on 9th Feb 2019 by Ms. Shivani Agarwal. Students of 2nd & 3rd year participated

IMS ENGINEERING COLLEGE

VIBGYOR

THE SPOTLIGHT FIGHT

Solo Singing
Duet Singing
Group Battle
Rap Battle

"Those who wish to sing, Always find a song."

FOR DETAILS CONTACT - Ms. Sapna Yadav , Ms. Juhi.

IMS ENGINEERING COLLEGE, GHAZIABAD
PRESENTS

VIBGYOR 2K19

SKIT BATTLE

LIFE IS FULL OF DRAMA

March 15th & 16th, 2019
IMSEC AUDITORIUM

FACULTY CO-ORDINATOR:
Ms. Jyoti Guglani (EC)

IMS ENGINEERING COLLEGE, GHAZIABAD (U.P.) PRESENTS

VIBGYOR 2K19

STAND UP COMEDY

COMEDY CARTOON CHARACTER

#CELEBRATING LIFE IN COMIC

March 15-16, 2019
4:30-6:00 PM
IMSEC CAMPUS

FACULTY CO-ORDINATOR:
Mr. Saurabh Dubey(CE)

IMS ENGINEERING COLLEGE,GHAZIABAD PRESENTS

VIBGYOR 2K19

#CHAMPIONS DON'T TALK ,THEY PERFORM

NUKKAD NATAK

March 15th & 16th
4:30 PM
IMSEC CAMPUS

FACULTY CO-ORDINATOR:
Ms. Shomini Parashar(BT)

IMS ENGINEERING COLLEGE

VIBGYOR

DANCE

Solo

B. Boying

Duet

Group

"Dance isn't something that can be explained in words"

COMPETITION

FACULTY COORDINATORS- Ms. Sulekha Saxena & Mr. O.P. Yadav

IMS ENGINEERING COLLEGE,GHAZIABAD
PRESENTS

VIBGYOR 2K19

CLICK ME COMPETITION

MARCH 15 & 16TH,2019
IMSEC CAMPUS

FACULTY CO-ORDINATOR:
Mr. Jaya Nidhi
Vashishtha[EC]

Event Name	Participant Name	Branch	Year	Position
Rangoli Making	Jyoti	CSE	3rd	I
	Ekta	CSE	3rd	
	Priya	CSE	3rd	
	Chitranshi	CSE	2nd	
	Sujata Mishra	CSE	3rd	II
	Shraddha Singh	CSE	3rd	
	Venu Kumari	CSE	3rd	
	Ujjwal Kumar	CSE	3rd	
	Deepanshi Agarwal	CSE	2nd	III
	Anamika Awasthi	CSE	2nd	
	Anjali chaurasia	CSE	2nd	
	Anjali Negi	CSE	2nd	
Mimicry	Sumit Kumar	CS	2nd	III
Kavi Sammelan	Shikhar Srivastava	CE	4th	II
Solo Dance	Agrima Gaour	CSE	3rd	III
Duet Dance	Astha Singh	CSE	3rd	II
Face OFF	Krishnanshu Mishra	CSE	2nd	II
Treasure Hunt	Vansh Verma	CSE	3rd	II
	Vishal Kumar Singh	CSE	3rd	
	Umang Rastogi	CSE	3rd	
	Vishal Malhotra	CSE	3rd	
	Vishal Gupta	CSE	3rd	
Solo singing	Sarthak	CSE	1st	I
	Deepali Srivastava	CSE	3rd	II
Story Making (Video Animation)	Ramashish Yadav	CSE		II
	Prabhat Singh	CSE		
	Prashant Mishra	CSE		
RAPP battle	Akhil	CSE		I
Group Dance	Shreya	CSE		II
	Shikha	CSE		
	Chitranshi	CSE		
	Jyoti	CSE		
	Mansi Raghav	CSE		
	Swarnima	CSE		
Battle Field	Nikhil Garg	CSE		II
	Palak Singhal	CSE		
Group Singing (Battle)		CSE		I
DJ Battle		CSE		I

AKTU Sponsored

NATIONAL CONFERENCE ON INNOVATIVE COMPUTING (NCIC 2019)

Organised By:

Department of Computer Science & Engineering, IMS Engineering College, Ghaziabad.

Submission Details:

Paper should be strictly in IEEE single column format. Paper will be submitted through easy chair submission link:

https://easychair.org/conferences/?conf=ncic19

Registration Details:

Student: Rs.700 | Faculty: Rs. 1000
Delegates from Industry: Rs. 1500

Topics for the Conference:

• Application of Computing in Interdisciplinary field.
• Application of Computing for web based and mobile solutions.
• Application of Computing for societal benefit.
• Application of Computing for nature enabled solution.
• Artificial Intelligence, Machine Learning and Soft Computing.

IMPORTANT DATES:

Paper Submission Last Date	:	30th March, 2019
Acceptance Notification Date	:	10th April, 2019
Registration Date	:	11th-15th April, 2019
Conference Date	:	20th April, 2019

KEY NOTE SPEAKERS:

Prof.(Dr.) S.Chakraverty
NSIT Delhi.

Prof.(Dr.) O.P Verma
GB Pant Engineering College,Delhi.

Prof.(Dr.) R Balasubramanian
IIT Roorkee.

FOR MORE DETAILS CONTACT: upasana.pandey@imsec.ac.in | +91-9871784621

ACHIEVEMENTS
&
PROJECTS

## Details of GATE qualified students in 2019

SN.	STUDENT NAME	GATE Status	Group.: (समूह)	GATE SCORE
1	ABHISHEK SINGH CHAUHAN	QUALIFIED	Computer Science and Information Technology	367
2	AJAY SINGH CHAHAR	QUALIFIED	Computer Science and Information Technology	400
3	ADARSH KUMAR SINGH	QUALIFIED	Computer Science and Information Technology	455
4	AKHILESH KUMAR	QUALIFIED	Computer Science and Information Technology	245
5	AKSHAT PATHAK	QUALIFIED	Computer Science and Information Technology	367
6	DEEKSHA PAL	QUALIFIED	Computer Science and Information Technology	333
7	GOVIND NARAYAN JHA	QUALIFIED	Computer Science and Information Technology	496

IMSEC.CSE NOTES

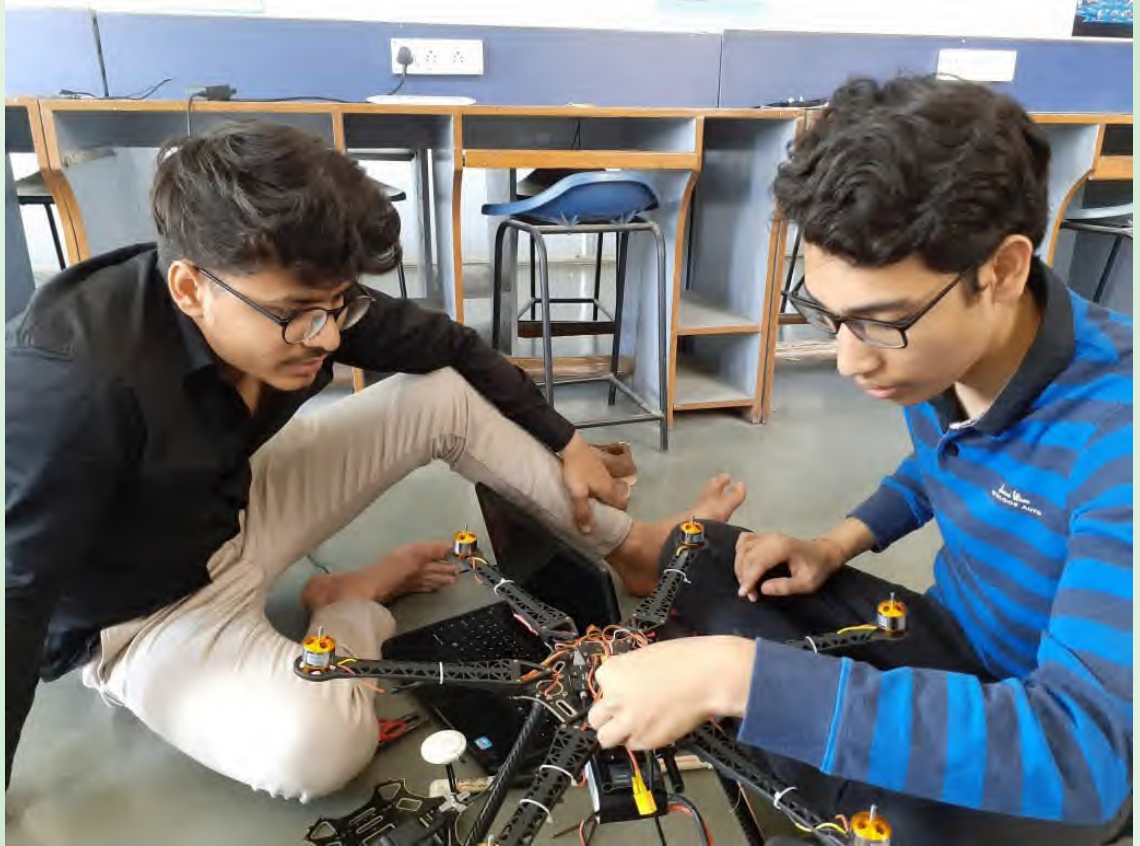Mr. Ashwani Kr, student of CS 4th yr has created an android app for teachers & students. It provides subset wise faculty notes for students. Currently the app is functional on play store with more than 250 downloads. It also provides the facility to upload & view question papers, assignments, see attendance from college portal.

Aim to remove dictation from classroom and bind the students and teachers into a single platform where they can learn, share and educate each other
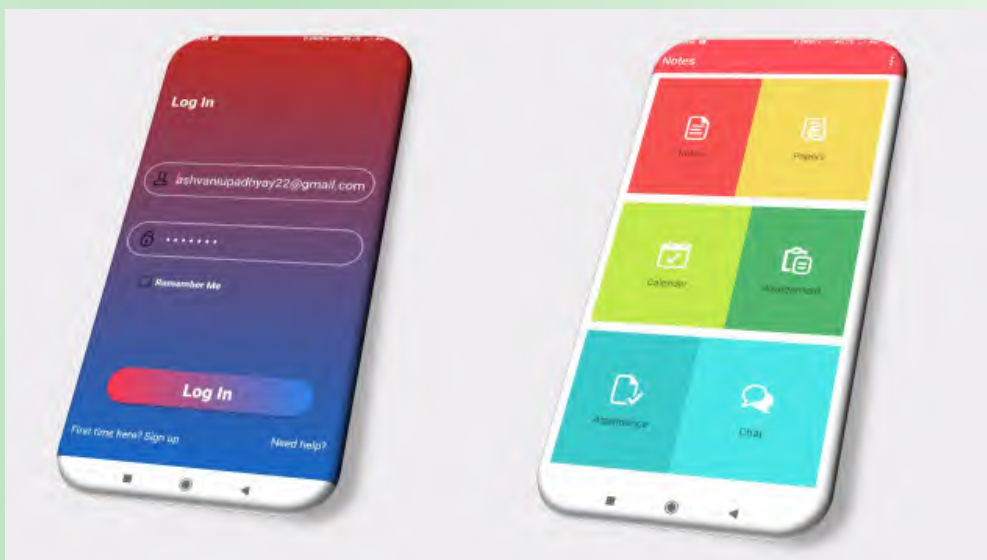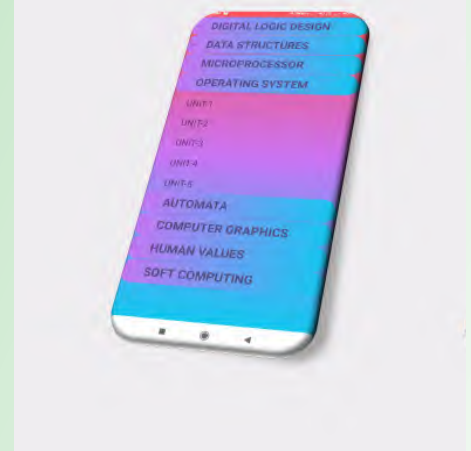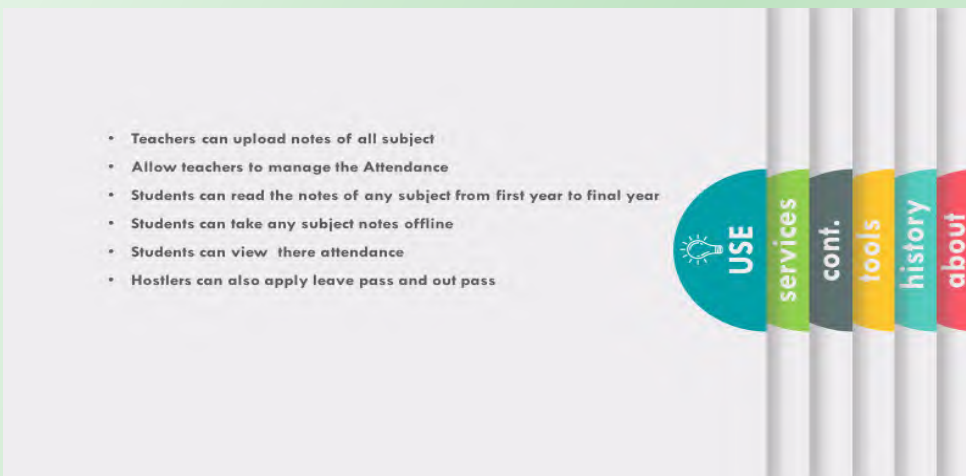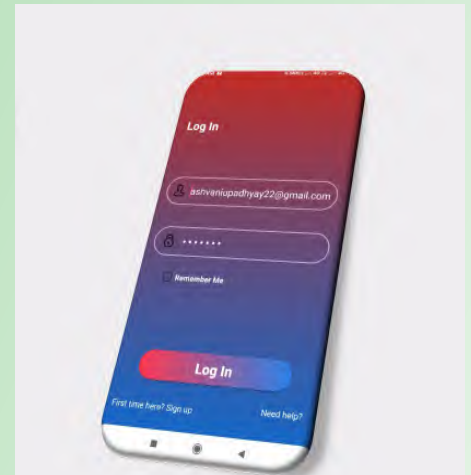
Hexcopter Project

A team of CS students including Manish Bansal, Praveen Tyagi, Rohan, Aryan Singhal developed a Hexcopter with video surveillance facility. It is equipped with high end Go-Pro camera. The project aims at taking high quality pictures of agriculture crops and then analyze the health of these crops for day to day inspection. It also aims at adding water floating & water sampling capability for water pollution monitoring

OSCILLATOR

frequency

MIDI SYNC

on   off

fw/rw
length

trig
Next

1   2   3   4   5

Link

Repeat
| 1 | 1 | 1 | 1 | 1 |

Next
| 2 | 3 | 4 | 5 | 6 |

on   on   on   on   on

A Visit to
CETPA Infotech. Pvt. Ltd.

An Industrial visit to "CETPA Infotech. Pvt. Ltd.", Sector 2, Noida, Uttar Pardesh-201301 was organized by the Computer Science & Engineering department of IMSEC, Ghaziabad on Saturday, 09th February 2019. A total of 83 computer Science Students from 3rd year and 2nd year and four faculty members visited visited CETPA Infotech. Pvt. Ltd. to interact with the Software Industry to understand current market scenarios, latest most demanding technologies & criteria for selection etc.

Mr. Saurabh of CETPA Infotech. Pvt. Ltd. conducted very informative session on cloud computing for the students. He also motivated the students to select their domain and area of interest. He also discussed about WWH(what, why and HOW) of cloud computing. The session was concluded with Question- Answer session. Many of the students asked different questions on current demanding technologies, market scenarios etc.

Another session was conducted by Mr. Vinay Kumar Sharma, Oracle Expert and DBA at Cetpa. He encouraged students to think of DBA/ Database developer track as career options and discussed the opportunities in this field.

The visit came to an end at 4.20 p.m. All Students were dropped at college at 5:30 PM.

It was an informative, interesting and a successful visit.

CSI Student Branch organized a workshop on "Java and Web Development" under Department of Computer Sciences and Engineering on 9th Feb 2019 and 16th Feb 2019 at Academic block-C, IMS Engineering College, Ghaziabad. It was a technical workshop which includes the Core Java, HTML, CSS, and JavaScript. The objective of the workshop is to give basic knowledge of core java and web development.

Course covered:
1.   Core Java
2.   Html
3.   CSS
4.   JavaScript

Java and Web Development workshop

List of the Participants:

Roll Number	Name
1714310082	ITIKA TYAGI
1714310087	JYOTI CHAUHAN
1714310088	KALASH
1714310089	KAPIL
1714310094	KRISHNANAND SHARMA
1714310103	MD. PARVEZ
1714310104	MEGHA KAMBOJ
1714310107	MOHIT SHARMA
1714310108	MUKAR BAJPAI
1714310113	NAVID IQBAL
1714310117	NUKHIL JEDA
1714310118	NIKITA SHARMA
1714310120	PALAK SINGHAL
1714310123	PRACHI SINGH
1714310124	PRADEEP SINGH
1714310127	PRAKHAR SINGH
1714310128	PRANJALI MALIK
1714310132	PRATAP SINGH
1714310134	PRIYAM CHAUHAN
1714310138	PULKIT SINGHAL
1714310139	RADHIKA SHARMA
1714310143	RAHUL RAJ
1714310150	RITIKA
1714310151	RIYANSHI
1714313022	CHANDRA PRAKASH SINGH
1714313052	MUDITH UPADHYAY
1714313064	PRABHAT KR. GUPTA
1714310135	PRIYANKA
1714310163	SARVENDU PANDEY
1714310168	SHANT SINGH SURYA
1714310176	SHIVAM MISHRA
1714310183	SHOBHIT MAHESHWARI
1714310185	SHUBHAM KUMAR MISHRA
1714310189	SHUBHAM VERMA
1714310209	VAIBHAV BHARDWAJ

WORKSHOP ON
MACHINE LEARNING
WITH PYTHON

A workshop on machine learning with Python was organized in the department on 9th Feb 2019. Instructor was from Cetpa Pvt ltd, Noida. The workshop was coordinated by Ms. Sapna Yadav, Assistant Professor, CS Dept. students learnt to apply basic Machine Learning algorithms on real data sets

Total of 77 students from CS dept participated

A VISIT TO TRINITY APP LAB

Upcoming Govt. Sector Jobs :-

1. SBI jobs for Probationary Officers Across India. Last Date to apply: 22 Apr 2019

SBI - *Job Details*

Advt. No: CRPD/ PO/ 2019-20/ 01

Probationary Officers job Position in State Bank of India (SBI)

SBI recruiting **2000 Vacancies** for the post of **Probationary Officers**

No. of Vacancies : 2000

Qualifications : Graduation in any discipline from a recognized University or any equivalent qualification recognized as such by the Central Government. **Those who are in the Final Year/ Semester of their Graduation may also apply** provisionally subject to the condition that, if called for interview, they will have to produce proof of having passed the graduation examination on or before 31.08.2019. Candidates having Integrated Dual Degree (IDD) certificate should ensure that the date of passing the IDD is on or before 31.08.2019. Candidates possessing qualification of Chartered Accountant may also apply

Emoluments : Presently, the starting basic pay is 27,620/- (with 4 advance increments) in the scale of 23700-980/7-30560-1145/2-32850-1310/7-42020 applicable to Junior Management Grade Scale-I. The official will also be eligible for D.A, H.R.A/ Lease rental, C.C.A, Medical and other allowances & perquisites as per rules in force from time to time. The total compensation per annum on CTC basis be a minimum of 8.20 lacs and maximum of 13.08 lacs depending on place of posting and other factors. SBI may offer, subject to necessary approvals, a SMART Compensation Package which would enable candidates a choice to monetize specific elements of the salary package.

Age Limit (As on 01.04.2019) : Not below 21 years and not above 30 years as on 01.04.2019 i.e. candidates must have been born not later than 01.04.1998 and not earlier than 02.04.1989 (both days inclusive)

Selection Procedure :

The selection for Probationary Officers will be done through a three tiered process: Phase-I: Preliminary Examination: Preliminary Examination consisting of Objective Test for 100 marks will be conducted online.

Selection criteria for Main Examination: Category wise merit list will be drawn on the basis of the aggregate marks scored in the Preliminary Exam. There will be no sectional cut-off. Candidates numbering 10 times the numbers of vacancies (approx.) in each category will be short listed for Main Examination from the top of above merit list. Phase-II: Main Examination: Main Examination will consist of Objective Tests for 200 marks and Descriptive Test for 50 marks. Both the Objective and Descriptive Tests will be online. Candidates will have to answer the Descriptive Test by typing on the computer. The Descriptive Test will be administered immediately after completion of the Objective Test.

2.IDBI jobs for Assistant Manager/ Executives Across India. Last Date to apply: 15 Apr 2019

Assistant Manager/ Executives job recruitment in IDBI Bank Ltd.

Advt. No.8 /2019-20

Assistant Manager

No. of Posts : 500

Qualification : A Graduate from a recognized university with minimum 60% marks (55% for SC/ST/PWD)

Pay & Allowance : The total salary, comprises of basic pay plus such other allowances, as admissible to the officers from time to time. The extant basic pay applicable to Assistant Managers in Grade 'A' is Rs.23700/- per month in the pay scale of Rs.23700-980(7)-30560-1145(2)-32850-1310(7)- 42020(17 years) [Pre-revised]. The candidate will also be entitled to such other perquisites/facilities/ benefits, etc. admissible to Assistant

Managers in Grade 'A'. The pay scale, allowances, reimbursements, perquisites and other terms subsisting at the time of joining and as may be modified / amended / revised from time to time would be applicable. The gross salary for the post of Assistant Manager (Grade A) at metro center is Rs.60000/- p.m. (approx.)

Age Limit : Minimum: 21 years Maximum : 28 years i.e. a candidate must have been born not earlier than 02.03.1991 and not later than 01.03.1998 (both dates inclusive) Relaxation in Upper age limit

Advt. No. 6 /2018-19

Executives on contract basis

No. of Posts : 300

Qualification : A Graduate from a recognized university with minimum 50% marks (45% for SC/ST/PWD)

Remuneration :

Rs.22,000/- per month in the first year,

Rs.24,000/- per month in the second year and

Rs.27,000/- per month in the third year of service.

Age Limit : Minimum: 20 Years Maximum : 25 years. The applicant must have been born not earlier than 02 March, 1994 and not later than 01 March, 1999 (both dates inclusive)

Last date for submission of **ON-LINE** applications is **15.04.2019.**

3. Centre for Cellular and Molecular Biology - Job Details

Advertise No: PN-4/2019

Project JRF / Project Research Associate-I job opportunities in Centre for Cellular and Molecular Biology on temporary basis

Project JRF [Post Code PJRF]

No. of Posts : 10

Qualification : MSc/ BE/ BTech / MTech in Bioinformatics/ Computer Science/ Biotechnology/ Biochemistry/ Genetics/ Life Sciences with 55% or equivalent.

Desirable : Must be familiar with analysis of Next Generation Sequencing datasets and Linux environment and use of command-line tools. Working knowledge of Python/R is highly desirable though not mandatory.

Fellowship : Rs. 25,000 p.m. (as sanctioned by the funding agency) + HRA as applicable/admissible.

Upper Age Limit : 30 years.

Project Research Associate-I [Post Code PRA-I]

No. of Posts : 03

Qualification : PhD in Bioinformatics/Computer Science/ Biological sciences.

Desirable : Must have at least 3 years of working experience with Next Generation Sequencing datasets and well versed with Linux /bash and routine command line tools for large scale data processing. Must have working knowledge of Python and/or R. Demonstrable knowledge of creating pipelines for NGS data analysis will be considered extremely favorably. Knowledge of DBMS and/or development of web-apps is desirable but not mandatory.

Fellowship : Rs. 36,000 p.m. (as sanctioned by the funding agency) + HRA as applicable/admissible.

Upper Age Limit : 35 years.

Selection Process : Written Test/Interview.

How to apply

Eligible candidates may **Apply Online** on or before **20.04.2019**

http://www.ccmb.res.in/index.php?view=notifications&mid=0&id=71&nid=248

4. DRDO - SASE RDC - Job Details

Junior Research Fellow - SASE RDC

No. of Post : 1

Qualification : M.Tech in first division (both at graduate and post graduate level) in the fields of Geomatics/ Remote Sensing/ GIS.

No. of Post : 1

Qualification : Postgraduate Science degree in the first division with NET/ GATE in the fields of Stat/ Maths. OR M.Tech in first division (both at graduate and post graduate level) in the fields of CSE.

No. of Post : 1

Qualification : Post graduate Science degree in first division with NET/ GATE in the fields of Atmospheric Sciences/ Meteorology/ Physics/ Mathematics/ Statistics/ Geology/ Geophysics. OR M.Tech in first division (both at graduate and post graduate level) in the fields of Atmospheric Sciences/ Meteorology/ Physics/ Mathematics/ Statistics/ Geology/ Geophysics.

No. of Post : 1

Qualification : BE/ B.Tech in the first division with NET/ GATE in the field of Computer Engg/ Computer Science/ Mechanical Engg.

No. of Post : 1

Qualification : Postgraduate in Engineering (ME or M Tech) in first division (both at graduate and post graduate level) in the field Structure/ Geo Tech OR BE/ B.Tech in the first division with NET/ GATE in the field of Civil Engg.

Salary : Rs. 25000

Age Limit : max 28 yrs

Hiring Process : Walk - In

Typewritten application with complete bio-data and attested copies of Mark sheets/ Certificates, Caste Certificate, Experience certificates, publications if any addressed to **Director, Snow & Avalanche Study Establishment (SASE),Research & Development Centre (RDC),Him Parisar, Sector 37A, Chandigarh (UT)** should be brought at the time of Walk-in-interview along with a recent passport size photograph, duly affixed on the right top comer of the first page of application.

The **walk-in interview** will be held at the following venue & date:-

Walk-in Date & Time : **30 Apr 2019**

Venue : **SASE RDC, Him Parisar, Plot No. 1, Sector-37A, Chandigarh**

DEAR READERS ,
EDITORIAL BOARD
WELCOMES ARTICLES
FOR THE NEXT ISSUE OF
THE BYTE, MAY 2019.

MANY THANKS