



Computer Science and Engineering

CS CONNECT

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Hello Readers,

We are delighted to present you the another edition of CS-Connect, the newsletter of the Department of Computer Science Engineering. The edition is devoted to our beloved late Dr. Sanjay Bansal, Professor and Head, Department of Computer Science. The CS-Connect has been his dream publication. The articles published are in the memory of Bansal Sir which appeared out of author's experience with him as a family member, friend, colleague or a student. The theme of this edition also includes articles related to information and technological solutions of the pandemic COVID-19. Beginning of the year 2020 brought new difficulties and challenges before us. But the teachings of Bansal Sir couldn't stop us from moving ahead. With his blessings, we are all ready with new hopes and aspirations. The department continuously strived to perform even in the state of dual setback, one loss of Bansal Sir and another menace named COVID-19. This edition includes details of various activities, and achievements of students and faculties during this online semester. We hope that this edition will get recognition and appreciation from all the readers. As Bansal Sir always used to say, "Road to success is always in construction. Keep learning and growing."

- Editorial Board

DR. SANJAY BANSAL:

A boy from a small village who started his journey with nothing.



-Nikhil Bansal
CS 3 (IV Year)

I will never forget the day I lost my papa. My idol, my best friend, my hope and the only person in the whole world who believed and had faith in me every single moment in life no matter what I did.


He was a youngster who came to Indore from a small village named Barwah, without a single penny in his pocket, least support from his family and no connections or contacts, who today with a lot of hardwork, struggle and dedication proved what he was capable of to the whole world and to even those who underestimated him throughout his life.

Papa, just because of you, I started believing in myself when nobody except for you did. You motivated me in every aspect of life. Even when I gave up on myself, you were with me on every single step of life, encouraging the best in me. You dropped me to school no matter how far it was, as you could not see me worrying. You loved me so much. I can never forget your way of expressing your love for your family, let it be the family at home or the family at college.

I still remember how you used to save me from maa's anger even if that meant you getting in an argument with her. Buying me everything I ever asked for, all the toys, games, every type of electronic gadget and what not. Daily teaching me math (without considering your strictness right now). In school, from all your self-made worksheets to photocopying notes of scholar students in my class, you made me who I am today. You worked so hard to give us a good lifestyle, good clothes, a good house and admission in the best schools.

Every time the principal used to call you to school to complain about my misdoings, you never get angry, instead, you always encouraged me by saying, "Bohot talent hai tujh mein, bas din mai 7 - 8 ghante mehnat karna seekh le, dekhna kaha pohoch jayega," and what I did was keep repeating the same mistakes.

When my 12th results arrived and I was so scared, I thought, "Papa daatenge, result accha hi nahi aaya." but all you said was "Bas 1st division hain na? Koi ni, Jao party karo," just so that I don't lose my confidence. And when I finally started to work hard, there was not a single moment when you were not happy or proud and you told every single person about my achievements. I learnt so much from you and when I spent time with you in the hospital in your last few months, I came to know what life is all about.



How did you manage to be such a cool dad? I used to share everything with you, every single detail of my life. Sometimes, I saw some of my friends who were so afraid of even talking to their father but there I was, talking to you like my best friend. You're my everything dad!

Giving food to stray animals, giving stationary to poor kids ,also helping them in their careers and planting trees (even from the seeds of the fruits we used to eat at home, I remember how you never let anybody throw those seeds in the dustbin). Honesty, patience , dedication to work, ethics, hard work, broad mindedness, never losing hope, always doing the right thing, all learning in your quotes, advancing by performance, and most important of all :

"Kabiliyat paida karna".

When I saw such a good man struggling and bearing so much pain in life, I lost my faith in life. The thing I regret the most until now is that when the time came to give a little back to you from my side for you being such a good dad, I failed. I always wanted to make you feel proud but I never did and nevertheless, you kept motivating me till the end. You are my ideal, my hero and my everything papa. I love you so so so much, if it's possible to love someone that much.

When you were with me, I always had this confidence and comfort, which I am never going to have again. You inspired many lives just like mine with your wise words and magnificent smile.

When I saw that last smile on your face when you left us, I just wished and always will that you get the peace you were looking for the past one and a half years of your disease and what you, with no doubts, deserve. Farewell papa, I am going to miss you a lot. I promise, I will fulfill your dreams and carry forward all the good deeds you taught me. I absolutely feel blessed and lucky to have a father like you.

"There are no goodbyes for us. Wherever you are, you will always be in my heart."
Lots of love.

A Legend-As They Call Him....

- Ashwada Bansal

Dear papa,

You are the most hardworking, loving, caring, brave, strong and selfless father I've ever seen and also the Father who never compared his children to anyone else, believing the best in them. You've always been perfect in all your jobs let it be from a father to an amazing husband to the Best HOD, Best idea innovation mentor, Best Teacher, Best Friend, Best son, Best brother and the Best Human Being. An intellectual human being and a philanthropist personality. You always understood me the best and encouraged me in every single aspect of life, let it be playing guitar, dancing, singing, writing, badminton, lawn tennis, swimming or even a stupid school exam. You made me believe in myself. You made me realize that whenever I hated you or mumma, I was wrong. I remember how we used to party even on my smallest achievement (mumma aur bhaiya ke bina obv) , you used to call me from your office everyday at a fixed time after I used to get back from school, how you used to massage my head and apply oil on my hair, how we used to chase the school bus whenever I used to get late in the morning mostly everyday.



How we used to fight for the TV remote and other stuff and then how you used to come to me when I used to get angry and then hug me tightly and apologize even after my fault, how you used to tell everyone that your daughter is your soul and your pride and each and everyone at your workplace knew my name. You have made thousands of careers, your students love you, you are their favorite teacher, your friends love you, you have guided so many people in life, you have inspired and helped so many. Hard work, passion, humor and love for life are some of the many traits that characterized you. Your life touched many students including mine who'll fondly remember you as their teacher.

Dr. Sanjay Bansal - A Man who can't die!

You were the only person who energized everyone with passion and enthusiasm. You accomplished so much at a very young age. You encouraged every idea no matter it was big or small. Planting trees, distributing stationery in government schools, distributing blankets in winters and helping the needy were some of the things you used to love doing without telling anyone. Some truths in life are hard to accept. Your departure is one of those hard truths. Your memories will never be forgotten. They will remain with me forever. A man may die but his legacy will continue through his deeds. Today the pain of losing you is difficult to bear because you've done so much for so many people. I know mourning is not the best way to say goodbye to you as you used to fight all your problems and difficulties with a smile on your face and used to say , "Meri beti ki sabse beautiful smile hai". I know you are not leaving me. You just left me alone to fight against the world and become strong enough to be independent, brave, bold and fearless. I have a special place for you in my heart and it will be for a lifetime. As a daughter, I made a lot of mistakes and did a lot of stupid things, you made me accept them and always forgave me. Today, I promise you, I will never let you down.

You might not hold my hand no more, but you'll always, always hold my heart.

Aapki gudiya.....

Can We Still Live With Bansal Sir?

- Prof. Rashid Sheikh
Associate Professor

Before putting my thoughts let me share one of the social habits of Bansal Sir: He was very worried about environment and its sustainability. Therefore, he used to do plantation whenever possible. He used to get the eaten mangoes and blackberry seeds. Some of these seeds he used for small home nursery, and remaining he used to throw at suitable place near highways or green zones in rainy season. Now, coming to living with Bansal Sir, what you can do is; in this rainy season grow a plant in the name of Bansal Sir at some suitable place. If enough space is not available at your home, you can choose some suitable place nearby your colony. I will plant at ring road outside my street. Do take care for this plant for at least three years until it reaches towards tree stage. Whenever you visit the plant for watering, pruning etc remember that this plant is in the name of Bansal Sir. Believe me, you will have a feeling that Bansal Sir is with you. When the plant will grow, it will give a sign of happiness of Bansal Sir. When the tree branches will dance together with the wind, you will feel that Bansal Sir is cheering. When the wind is not blowing and the whole tree is still at its place, it will give you an impression that Bansal Sir is upset. When autumn will let the leaves to dry and fall, Bansal Sir will be seen as sick. And with the new green-shiny leaves he will recover and again enjoy with you. In this way we will always live with Bansal Sir. Also, you will serve the world both below the surface and above the surface. This will be a real tribute to Bansal Sir.

In The Memory Of Dr. Sanjay Bansal Sir

- Muskan Patidar
CS-2 III Year



It feels immense pleasure, proud and honoured in sharing some precious moments with Late Dr Sanjay Bansal Sir, Head of Department of Computer Science engineering, AITR. Dr Bansal was hardworking and was always dedicated towards his work. He always used to encourage, guide and praise students. I am glad that once I was at the receiving side of his blessings. This happened in ARDOR 2020, where there was a competition held named Department Decoration between all the departments of the college. I and my team worked very hard and faculty members of our department also supported us a lot. We presented our department in a very nice manner. Dr Bansal saw our decoration and was very glad to see our hard work. He praised me by giving a cash prize. I and my team were very delighted to receive his compliments. I get emotional when I remember his lines, he addressed me as his daughter and said: "DAUGHTERS NEVER TOUCH FEET", that day, we won the competition already irrespective of the result because we won his heart. Thank you so much Sir, for all your knowledge, motivation and appreciation. We all will always remember you in our good memories.

May your soul Rest In Peace!

Redrawing Career In COVID 19

- Dr. Shilpa Bhalerao
Professor

The corona virus pandemic, which was first detected in China, has infected people in 188 countries. Its spread has dropped economy drastically and world is looking forward to new normal way to cope up this pandemic situation. Covid 19 has dark side of illness, mental and physical stress along with economical imbalance in society. But every situation has positive perspective also. Accepting current scenario and working for best will help you to come out of stress. This time is for unlearning the traditional practices and embracing the changes in agile way. As the good old SWOT analysis tells us, there are not only threats, but also opportunities. In this article, I am going to discuss opportunities to learn and market yourself by redrawing your career map to hit market.

Gaining Multifunctional Skill

This pandemic affects economy drastically and shut down of many industries. Many organization are retaining/hiring the persons having multifunctional skills. So as computer graduates, one should be open to learn various domain knowledge such as IOT, analytics and deep learning, project management practices etc.. Cross functional technologies help you to nurture your potentials and increase your job prospects as software companies now will look for fresher who can handle multiple projects with different domains so that they can reduce their recurring cost of the organization.

The New Normal Life Style

With functions changing within and across industries, it's essential that fresh job seekers enhance skillset, be open to negotiations, accept flexi staffing roles to get introduced to bigger brands, and remain flexible to stay employable right now. Though candidates might face difficulties during the slowdown, once the re-building period begins, they will have notched up a great amount of learning. Companies are reinventing themselves constantly to ensure business continuity and keep the inflow of revenue channels positive. Service providers are also innovating on business models and offerings along with pricing points. As India warms up to a gig economy, and labour market credentials get better with renewed processes and reforms at the national level, the new normal will be completely different from what the job market used to be and the career roadmap for India's fresh grads will witness an impressive expansion.

Demanding Job Sectors

A newer way of working across the globe generated new line of business opportunities. Organizations are looking forward to invest in R&D, health care, predictive analysis and data science for deployment of technology to achieve better risk management. Ecommerce, broadband services will show immense increase in manpower demands. Gaming, digital content, work-from-home virtual teams, and project management software players are witnessing steady increase in business and are subsequently announcing hiring in large numbers. Lastly, we must appreciate graduating batch for their acknowledgements and laurels they brought for Acropolis and wish them for bright future. My advice in this pandemic period is to stay calm and try to adopt this new normal life by acquiring multifunctional skills. Lockdown time has given us more time to reflect and reconsider ourselves. Therefore, accept the situation and adopt it for working on better opportunities instead of blaming it.

2020, Boon or Curse?

- Sameer Nagar
CS-3 III Year

"Life is a mystery, not just we earn out of it but at the same time learn from it." On 31st December 2019, when the clock struck 00:01, we transited to the new year 2020, with blessings and best wishes, hoping this would be a better year and with all the blessings we started the year. This is my view of 2020 till now related to technical aspects and the revolutionary year. We started our year on 1st January 2020 with A HOPE OF A GREAT YEAR AHEAD. We were living a usual life. Then Australian bush fires shook the world. There was a great loss of nature in this bush fire. The animals lost life and then we realized that we need to do something technically for nature and for the people. We were having a great year in India until March began. This was the beginning of a revolution for India and the world. COVID-19 knocked our door. And we were unaware about this. On 22nd March Janta Curfew was implemented and at that day we realized that it would be a tough time ahead. Lockdown 1 began. The government was technically strong and made Arogya Setu App. This step was bold and I was proud that India made it. This was the period when we began to sanitize and wear mask. And the number of corona patients was increasing day by day. We were afraid but online platforms helped a lot. Yes, online studies began and students attended the class sitting at home and where we realized that ONLINE TEACHING IS MUCH SAFER THAN PHYSICAL TEACHING. Apps such as Google Meet, Zoom, Microsoft Teams and many other apps helps people to connect across the world. Many courses were offered by Coursera, Intershala and other platforms.

Online payments were like a life saver in this time. People sitting at home, made payments of bills and bank transfer. So we derived the fact that online payment platform/UPI platform is safer and easier than cash. So people learned the use of technology and how it helps people in this difficult times. We were sitting at home sad and a news came across that shocked the CS department and Acropolis -Dr. Sanjay Bansal was no more with us . We were sad and heart-broken after listening to this news. I personally had many stories with him and I remembered all that on that day and I said, "WHY 2020 WHY?". Bansal sir was a role model for all CSE students. He was the back bone of the department. He was generous, kind and fond of charity. Always when I met him, he greeted me with smile. Some of his said lines are:- "Students, we are here to study and earn good package and support our family and not to waste our time in these worthless activities". "We are a family and we need to work together and if we don't then the lose will be on both sides". Bansal Sir was a milestone in my life who taught me to achieve my goal and select the path to success in life. He was great and will always be alive in his words of Wisdom.

Corona took away our loved ones but also made us realize that how important is nature and cleanliness to us. Nature is our mother and it is our duty to respect her and not to harm her. Here I end my article. The question still prevails whether 2020 is a boon or a curse? I submit that from March till now, has been very bad but the fact remains that a bigger portion of 2020 is yet to come. We remain hopeful that scientists will soon come up with medicine/vaccination for Corona-virus, just like we have medicine for almost every disease. I had started a discussion and we may take ahead in future but taking cue from these beautiful lines "Past is history, future is mystery, today is a gift and so its called Present". Let's safeguard our presents.

STAY HOME STAY SAFE STAY AWARE

Work From Home: Privilege Then, Necessity Now!

- Swaraj Lonsare
IV Year

COVID 19 has hit almost every country in the world. Many countries are in complete lockdown. It might have worked for some countries but has not been effective for others, but it has severely affected the world economy and businesses from MNCs to small scale businesses. The complete stop of work in companies has made them face high losses and forced them to relieve their employees. The earlier considered privilege of working from home has been now identified as a necessity and the only possible way of coping up with the stopped work and high losses due to the pandemic. Work from home for sure eliminates the chances of spreading COVID as everyone is working from the comfort of their homes and no physical contact is happening. But it is not that easy to practice by each and every person and business due to various factors and limitations. Many experts have stated that this pandemic has forced the largest experiment of Work from home culture. Some say that the future will be based on this work culture only and there will be a very limited number of offices and workspaces. The results of this experiment have found both pros and cons which need to be discussed. The most positive outcome of work from home has been the continuation of work. People who are able to work from home are continuing their tasks from home and enabling their company to run and earn money during times like these. Work from home also has enabled more comfort and convenience as one can customize his home to the best environment. A person working from home is able to spend more time with his family making his job less stressful and doing his work with positive thoughts. Overall it has been observed that Work from home makes an individual more satisfied and positive since he's able to avoid the annoying commute, the stressful environment outside, the unnecessary sounds all around along with the benefits of comfort and time spent at home. But there has been a negative side to this work culture as well. The biggest being the way it is being practiced. Jobs requiring the physical presence of a human cannot be done through this. The idea of work from home is dependent completely on technology. Share of work and meetings is all done through cloud and conference calling apps like Zoom, Google Meet, etc. Many individuals are not familiar with the use of these and many have limited resources for accessing these apps. Another negative impact is the lack of human interaction. Online conversations and meetings cannot fulfill the importance of physical meetings and this might cause a negative influence. One's professional life and private life are merged in this work culture and may make it difficult to keep them sorted and separated. Work at home invites many distractions through the comfort of home which was not there at the offices and workplaces. These distractions might cause failure in achieving the targets. Also, this results in a lack of productivity and efficiency as you're not in the designed and dedicated area for the particular work. More than 50% of jobs that can be done completely or partially from home are being done from home during this pandemic. In conclusion, we can only say that during times like these there is no other option for companies and employees than work from home. The challenges and inefficiencies of this work culture need to be dealt with with the best possible resources and ideas. Work from home seems to be the only solution in which the spread of COVID can be controlled as well as the downfall of the economy could be minimized.

How Corona virus has Affected "TECH & S/W Industry"



- Sahil Paraswal
CS-3 II year

With WHO, declaring the epidemiological outbreak of COVID-19 as "Pandemic", it has led to adverse ramifications on the corporate sector worldwide. The novel corona virus is still wreaking havoc in all the industries globally. The business and lives of people have been impacted dramatically due to the life-threatening effects of the corona virus. The majority of IT and Tech giants are committed to giving utmost priority to public health and have made significant changes in the employee working styles. I can't yet pluck the future out of the crystal ball, and the future may yet hold surprises. But yes, in one of the better worst-case scenarios out there, 100 million and more Indian jobs will be at risk during and after the COVID-19. Many organizations are also encouraging their employees to work from home to prevent further outbreak of the corona virus disease. India's giant IT services companies will see a significant slowdown in growth during this financial year as they grapple with the upheaval wrought by the Covid-19 pandemic, according to analysts. Top software exporters - Tata Consultancy Services, Infosys [NSE 2.86 %] and HCL Technologies [NSE 1.90 %] — will be impacted by the reduced technology spending by clients in the US and Europe following lockdowns across the globe, experts said.



COVID 19

- Paresh Shah
CS4 III Year

Coronavirus pandemic (COVID-19) is an infectious disease caused by a newly discovered Coronavirus. The symptoms of the COVID-19 virus will experience mild to moderate respiratory illness, high fever, cold, cough, no sense of taste of food etc. and recover without any special treatment. Older people, and those with underlying medical problems like cardiovascular disease, diabetes, chronic respiratory disease, and cancer are more likely to develop serious illness. In world, many type of combinations of medicinal drugs are given to patients. They are also given a healthy and balanced diet which help them to increase their immunity power. The best way to prevent COVID-19 virus is to protect yourself and others from infection by washing your hands or using an alcohol based rub sanitizer frequently and avoid touching your face. Obeying the rule of social distancing of 1-1.5 metres. And while going to crowded area you should not touch any surface and put mask on your face. It spreads primarily through coming in contact with infected person through sneezing or coughing particles. And according to research of University of Harvard, When person sneezes around 200 particles are released while when person have coughing around 2 lakh particles are released. So, it is essential to put mask and sanitize your hand while going outside. At this time, there is no specific vaccines or treatments for COVID-19. However, there are many ongoing clinical trials evaluating potential treatments. Patients are also be given ayurvedic treatment and followed by yoga and balanced routine of ayurveda.



Combating The Pandemic

- Pranjal Jain
CS-3(IIYear)

"When God closes a door, somewhere he opens a window", the window is the multiple livestreaming platform. Countries around the world are authorising clinical trials involving experimental techniques such as gene editing, synthetic biology and nanotechnologies, in a race to prepare and testing future vaccines, treatments and diagnostics. Artificial intelligence, robots and drones are helping to track the disease and enforce restrictive measures while service robots are being deployed in various ways in hospitals. Since the fight against COVID-19 is likely to be a protracted one, our current short- term practices focuses on the immediate emergency will need to keep pace with evolving situations and be adjusted dynamically. Furthermore, they must go hand in hand with long-term preparations for possible further pandemic induced shocks ahead. In addition, the stringent rules we have been following for months in terms of sanitation, disinfection, health monitoring, contact tracing and medical screenings will continue to apply and even be strengthened whenever the situation requires. COVID-19 has exposed human fragility, with the downside of an interconnected world. With despair lingering and the world in disarray, had it not been for effective and advanced technology solutions, we would have been staring at an unmanageable crisis. By mustering resources at its disposal and deploying the latest technology, world has mitigated the effects of COVID-19 to a significant level. The pandemic-induced trying times have also provided us with a rare opportunity to reeducate ourselves Technology cannot prevent the onset of the pandemics; however, it can help to educate, warn, and empower those on the ground to be aware of the situation, and noticeably lessen the impact. Every cloud has a silver lining, and there are positives that could be taken away from the current crisis, despite the challenges it has posed. This situation has led us to major reorientation in our mode of operations and adapt our existing work to today's remote working and home-based learning reality. This of course entails more manpower and financial inputs, but as the fight against the epidemic is still a challenge and with the health and well-being of all at stake, it demands the effort. In short, many practices will now have to be changed and all together with a different approach after this global health crisis too somehow -" THE SHOW MUST GO ON".

Realizations

- Shantanu Dubey

CS-3 III year

The coronavirus pandemic is the most valuable lesson, which the nature taught the humanity in centuries. Every coin has two sides, and so was the case with the tragic-toss' of this Covid-19 coin. For all, it flipped to the undesirable side anyway, while simultaneously flipping the lives of many and worsening the conditions. Here we all were being tested and examined by the nature. Only those who had an optimistic view survived "creatively". This was the time when our already set lives were challenged and had to change and get re-set in totally different moulds. Moulds, which had certain boundations unlike the earlier free lives, which is still tough for many to get into. It taught many things to the living generations. Some fortunates were simply learning to prepare different cuisines and beautifying their supper plates but many were struggling to survive! For Indians, especially, it made us all turn back, take a glance and re-learn the often ignored and forgotten scientific practices our forefathers taught us and it all was re-initiated with the world greeting "Namaste!" or "Namaskaram!". The things we thought would never be possible became possible like the social gatherings with humongous crowds, our regular visits to the restaurants, movie theatres, offices, schools and colleges were all shut for an indefinite period of time but still, here we are, living with no major deficits, all hale and hearty! And all of this pompous social lifestyle which was actually unsocial deep inside was just a result of only 6-7 decades for most of the world but for most Indians was just a matter of 4-5 decades. We must think and realize that within a period of mere 60 to 70 years, the whole humanity forgot its basic nature and its original identity with which it was living since time immemorial and became a puppet of the westernized, hollow, pompous and showy lifestyle. Adding to it, the advertising agencies made it so rock hard for us to change ourselves. The pandemic, within days brought us all nearer and closer to those who actually cared for us rather than our virtual friends. It made us recognize and helped us differentiate our well-wishers from the smiley-masked sharp-scissors. People with millions of followers in the virtual world were left alone; got depressed and committed insanely hazardous sins of self-immolation and people who were living alone since years were reunited with their families, had disposed-off their stresses and were re-energized for many upcoming years which hopefully not, but might be full of fighting battles with loneliness. The pandemic period made me think of and accept certain worthy realizations and I am sure you all had your own; some sharp, some bitter, some sweet but always laudable and praiseworthy; they are, simply, realizations!

Why Meditation is so Important in our Life.....

- Prof. Kavita Namdeo
Sr. Asst. Professor

Despite all its popularity, today very few of us truly know what meditation is. Meditation isn't about becoming a different person, a new person, or even a better person. It's about training in awareness and getting a healthy sense of perspective. You're not trying to turn off your thoughts or feelings. You're learning to observe them without judgment. And eventually, you may start to better understand them as well.

Meditation is an ancient practice that helps to control our own mind and consequently our own life and discover ourselves.

It is a way to recharge our batteries and to calm our mind down. Meditating helps us to control our mind and thoughts and turn off our mind when we do not need it anymore. Meditation is essential to feel well and live a Happy Life.

But why?

Meditation can help us to eliminate negative thoughts, worries, anxiety, all factors that can prevent us feeling happy. It has been proved that at the practice of meditation, carried out on a regular basis, will mitigate the symptoms of stress and anxiety. If we make a habit of meditating, we feel mentally fresh and we are able to deal with difficult situations more easily. We do not even need to spend hours and hours sitting in the lotus position. We don't need any particular reason to start meditating. Even if we are happy with our life, meditation could be very beneficial, it can help with the quality of our life and it as a prevention to a series of health issues. The benefits of meditation are many and have also been demonstrated scientifically.

Main Physical Benefits of Meditation:

Decreases the physical tension, delete psychosomatic disorders caused by tension, prophylaxis against stress, lowers blood pressure, strengthens the immune system, it slows the aging process, recharge our batteries.

Main Psychological Benefits of Meditation:

Calm, soothes, comforts. It helps to be more tolerant and sensitive. It helps to control our anger, energizes, take away the worries, brings clarity. It helps to be more confident in ourselves. It helps personal growth.

Main Benefits of Meditation at work or study:

Improves concentration, lowers the likelihood of distraction, improves memory. We are more receptive and learn more easily. It is easier to exercise control of ourselves and the situation under pressure. It helps to be more creative. It is unthinkable how many benefits we can get while sitting quietly, doing nothing.

Some simple tips to start Meditating

It is advisable to try to meditate every day, possibly at the same time to be able to create a new habit. Do not drink coffee before you meditate. Do not meditate after meals and choose a time of day when you are not full of energy. Prepare the place where you want to meditate, open a window to change the air flow and if you like you can use some incense. Choose a place not very bright, and wear comfortable clothes. It is very important that you are not disturbed during your meditation so disconnect your phone, close the door and if this is the case, put a signal to politely ask not to be disturbed. It is a time dedicated to yourself. Of course, as in all things, it takes time to learn to meditate, but the more you practice the quicker you learn and the more benefits you will get.

If this is the first time you try meditation, you can begin with a simple breathing exercise.

Deep breathing slows the heartbeat, relaxes the muscles, focuses the mind and is a great way to start meditation.

- 1) Take a deep breath.
- 2) Hold your breath for a few seconds.
- 3) Take a deep exhalation.

During the breathing, pay attention to the sensations you are feeling, imagine when you breathe in, the air flow that enters into your nose, then when you hold your breath imagine the air is distributed throughout your body and when you exhale imagine the air coming out of your mouth. Visualize and then focus on a specific point facilitates the control of your thoughts. So, It is important, however, to create a habit. When you begin to feel the benefits of meditation it will

be very difficult for you to stop meditating.

Microsoft Student Partners- A Life Changing Program

- Kartik Garg
CS2 III Year

It was about six months back when it all got started. I was a regular college going student with a very boring and as usual routine and then I received the mail that I'm selected as Microsoft Student Partner and my life got changed a lot. I had a wonderful experience after becoming an MSP.

Always listening and reading about successful people is much different than actually listening to them live and interacting with them. When those people especially share some tips and guide you, is a great opportunity. I got the chance to interact with Pablo Veramendi, the director of Microsoft Student Partner Program and Microsoft Imagine Cup Competition on a live-hands on call. He is very humble and very much dedicated and towards his work as you can easily feel that he loves his work a lot. I also got to attend the session by Dona Sarkar, former head of Windows Insider Program at Microsoft and only this but also heard Miri Rodriguez, creative journalist at Microsoft and international thought leader in brand storytelling, personal branding and youth entrepreneurship.

After being an Microsoft student Partner it created lots of opportunities for me which I never expected. I conducted workshops in my college. Even I was invited to be a part of the editorial board of our departmental magazine. Even I also got the chance to appear for a final interview for becoming Google DSC Lead.



Speaking in front of large crowd was one of my biggest fear. It looked impossible to me to speak in public until I became the Microsoft Student Partner. Being an MSP, I got the chance to conduct workshops in my college and thus speak in front of large number of people and this gave me confidence and also helped me overcome my public speaking fear. It improved my public speaking skills and also taught me how to talk to people in a professional environment in a much better and effective way. After only six months of my journey as a MSP, I'm confident enough to talk to different professionals in a much better way.

Microsoft Student Partners Program allowed me to meet and interact with like-minded people and also I made friends all over India as Microsoft provides a great platform to connect with everyone on Microsoft Teams. I met many Entrepreneurs, Developers, community builders, and many more.

When selected as a Microsoft Student Partner, you are provided with Microsoft learn Portal, LinkedIn Learning, free Azure services, and many more Microsoft technologies for free where you can develop your skills on various subjects and also build your knowledge. Besides that, you can attend different workshops hosted by various experts and other Microsoft Student Partners that helped me a lot. I learned various technologies such as Cloud Infrastructures, Cloud Technologies, Microsoft Azure, etc. Microsoft Student Partners program changed my life for good, I owe it.

Faculty Achievement

- 1.Dr. Shilpa Bhalerao participated in SPOCATHON event organized by NPTEL as a part of content Augmentation effort on 17th May 20.
- 2.Prof.Satyam Shrivastava have passed the certification exam of “Palo Alto Networks Certified Cyber Security Associate (PCCSA)”
- 3.Prof.Rahul Patel received designation of faculty ambassador from AWS Educate in recognition of his development, implementation and thought leadership and cloud computing programs.
- 4.Prof.Vandana Kate participated in SPOCATHON event organized by NPTEL as a part of content Augmentation effort on 17th May 20.
- 5.Prof.Satyam Shrivastava participated in SPOCATHON event organized by NPTEL as a part of content Augmentation effort on 17th May 20.
- 6.Prof.Vandana Kate published a book Chapter titled "Image Segmentation of Breast Cancer Histopathology Images Using PSO-Based Clustering Technique" in Springer book series Social Networking and Computational Intelligence.
- 5.Prof.Santosh Varshney, Prof.Kavita Namdeo and Prof.Rahul Patel are AWS certified faculties.

Certification and Research Paper

Faculty:

- 1.106 certifications done in various technologies like Alexa, Machine Learning, Block chain Cloud computing , Data Science, Python , Deep Learning.
2. 26 Research Papers have been published.
3. 20 Days Inhouse FDP on various technology like Alexa, Dark net and Data Protection Act Cloud Computing, AWS , ANN, CNN, RNN, Finite state machine, LINUX in a Windows World Student Tracking in Campus, WiFi Uses Tracking, and Gmail Account Hacking. Course attainment and Blockchain Basics has been conducted to keep learning.

Student:

Certification:

Coursera-1455
Udemy-81
RPA-36
AWS-104
Data Analytics-259
Scrum Study-270
Solo Learn-90
Sports-57
Culture-77
Total-2429

ResearchPaper:

230 students from Final year have published their research Paper.

Placements and Webinars



Placement:

The Department of Computer Science and Engineering provides the best placement assistant to its students. Continuous pre-placement training programmes and carrier development programs are conducted throughout the academic year to groom the overall personality of a students . Students of department placed in various renowned companies like :

Atmecs, Best Peers, Blazeclan Technology, Capgemini, Cognizant, Daffodil, Deep Logics, eInfochip Technology, Gammastack, Infosys, NIIT Technology, Tek Systems, Value labs, Xoriant, Xpanxion, Yash Technology, Zensar , TCS, Wipro, TCS-7 Ipa, IBM, Persistent. Department is happy to share that around 40 % students got placed in more than one company.

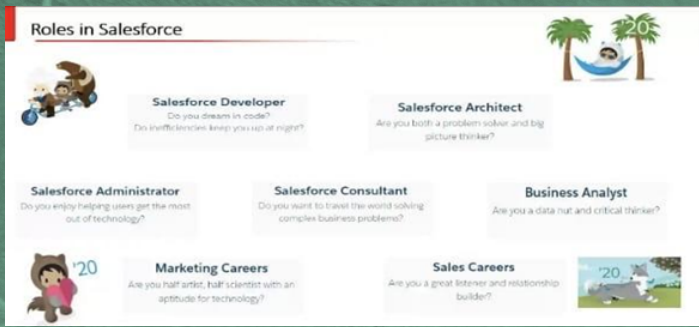
Web Series:

- 1 .A webinar on Salesforce conducted under ACM Student Chapter on 02-05-2020 by Mr.Aditya Dubey ,TCS (EAS: Salesforce Indore).
2. A webinar on "Future Cyber Arms Race and Importance of Cyber Security in the job market" and "Cyber Security and Risk Management", in association with ACM Student Chapter and CSI Student Branch, on 20.06.2020 by Mr.Ajinkya Lohakare (CTO & Founder of DITTO Security Mumbai).
3. A webinar on Cyber Security & Risk Management by Mr.Devesh Mathur ,Information Security Expert,TCS.
4. Webinar on "Unfolding Layers of Data Analytics", on 4 July 2020 by Mr. Taher Saifuddin, Assistant System Analyst, TCS.
5. A webinar on Enterprise Security - A Practitioner's View by Mr. Yogendra Trivedi/ Mr. Manmeet Singh (CISCO ,Information Security Architect).

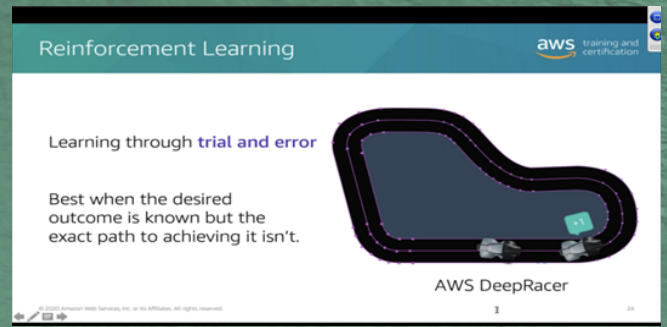
Expert Lecture and Workshop:

- 1.Expert Lecture on ""Skill Up During Lockdown"" organised by CSE department on April 29, 2020 to motivate the students to learn new technologies required for IT industries.
2. Amazon Alexa Workshop conducted by Amazon for 5 Days Platform – Live Twitch Boardcast by Mr. Kartik Ragubathy a Solution Architect at Amazon.
3. Acro Coding Club organised Workshop on Placement Preparation by Expertsby Mr. Aashish Chouhan & Mr. Aadesh Rathore (alumnus working in Amazon) and Final Year Students of the Department on July 01, 2020.

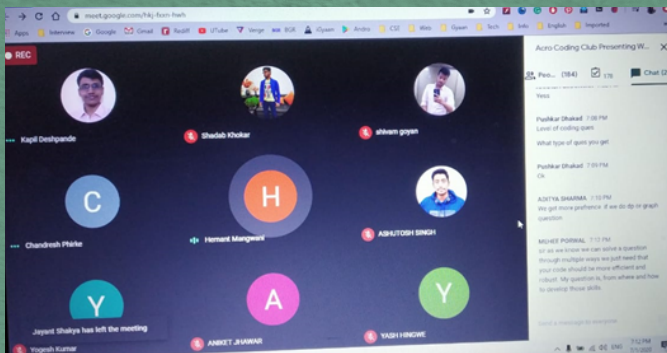
CSE Dept Glimpse



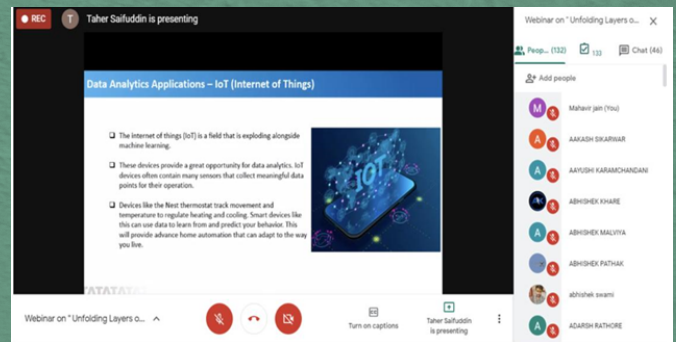
Salesforce Webinar 02-05-2020



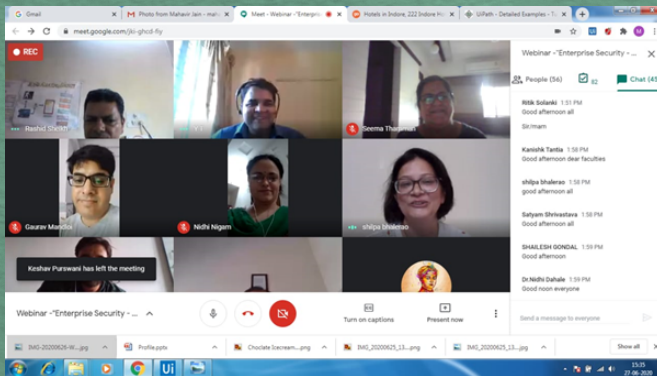
Virtual live sessions on ML



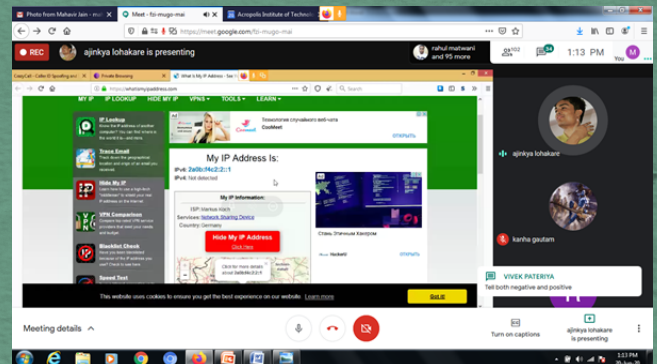
Acro Coding Club Presenting Workshop on Placement Preparation



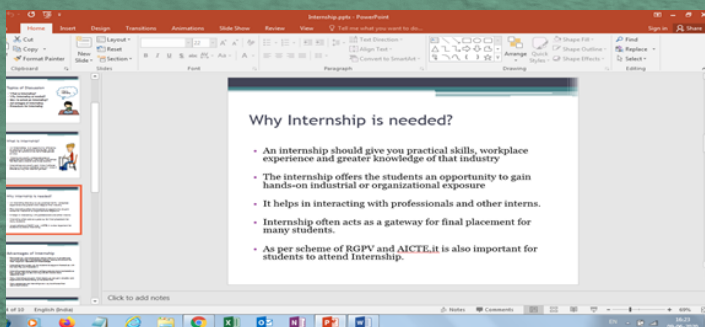
Webinar on "Unfolding Layers of Data Analytics"



Enterprise Security-A Practitioner's View



Webinar on Future Cyber Arms Race and Importance of Cyber Security in the job market



Internship Orientation Program for students of B. Tech I year"



Receiving designation of faculty ambassador from AWS

VISION:

The department strives to produce competent and qualified computer professionals and researchers to serve the community and profession with moral values and ethics.

MISSION:

- 1.To impart professional education emphasizing intellectual ability creation.
- 2.To provide learning ambience for enhancing innovations, research and values among the students.
- 3.To collaborate with industries for giving opportunities to students to develop their employability and entrepreneurship skills.
- 4.To inculcate professional behavior, positive attitude and communication skills.

Advisory Board - Prof. Shilpa Bhalerao , Prof. Rashid Sheikh

Chief Editors - Prof. Sukrati Agrawal , Prof. Divya Gupta

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