



THE ACM CHAPTER CHRONICLES

2020



**DELIVERING THE DOSE OF TECH BUZZ TO BRIDGE
THE GAP BETWEEN TECHNOLOGY AND YOU!!**

**ANNUAL
NEWS
MAGAZINE
USICT ACM
STUDENT CHAPTER,
2020**

VERSION 2.0



Gaurav Jain
ChairPerson

Divyansh Rastogi
Membership Chair

Harsh Goyal
Executive Member

Vishesh Gupta
Executive Member

Find Inside:

1. REPORTS OF 2020
2. AI: CURING THE MENTAL HEALTH
3. THE UN"KNOWN" COLLEGE
- AND MANY MORE....

EDITOR'S NOTE

“We see a world where computing helps solve tomorrow's problems - where we use our knowledge and skills to advance the profession and make a positive impact.”

ACM (Association for Computing Machinery) Student Chapter of USICT aims to provide students, research scholars, faculty members and the whole community, opportunities to explore the world of computers.

Throughout the year 2020 we conducted lots of events in order to achieve the motto of ACM "Advancing Computers as a Science and Profession" and plethora of events are on their way in 2021.

This newsletter would give you glimpses of our events & achievements of 2020.

Hope you like it!

Happy Computing!

Dr. Rahul Johari
Branch Head

Gaurav Jain
ChairPerson



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Harsh Goyal
Executive Member

Vishesh Gupta
Executive Member



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Visit

[HTTPS://USICT.ACm.ORG](https://usict.acm.org)

to explore us more ;)

MESSAGE FROM THE DEAN

USICT ACM Student Chapter was inaugurated in 2019 with an aim to give students an exposure to advancements in computing world.

Keeping the motto of ACM in mind, "Advancing Computing as a Science and Profession", the chapter organised plethora of events, throughout the year, like talks, workshops, competitions, symposiums, etc. I am sure students must have gained through these opportunities.

I would like to appreciate the efforts of the whole ACM team and wish all the best to the newly elected office bearers. Kudos to the whole USICT ACM team for a meaningful manifestation of our endeavours and achievements.

Prof. Pravin Chandra
Dean, USICT



MESSAGE FROM BRANCH HEAD

USICT ACM Chapter was inaugurated in January 2019 with the aim to provide a platform to bright and talented students of USICT to participate in various Workshops and Competitions.

Within the first year of its launch, the Chapter has not only organized various events but has also facilitated exposure to its Office bearers. Tamanna and Sapna participated in ACM National Convention at Jaipur in August 2019 and Abhishek in ACM Symposium on Computer Science and Law in New York, USA in October 2019. The kind of exposure USICT students have gained by interacting with fellow members of ACM on world platform has been amazing.

With sincere thanks to Prof. Pravin Chandra, Dean@USICT for providing all encouragement and support. I convey best wishes to newly elected office bearers of 2020-21.

**Dr. Rahul Johari
Branch Head
USICT ACM Student Chapter**



THE ACM USICT OFFICE BEARERS



"TEAMWORK IS LESS ME AND MORE WE"

ACM Office bearers are a team of enthusiastic individuals who are working continuously to establish an environment to Advance Computing as a Science & Profession in USICT. We are a team that is continuously working towards excellence in every field.

With the constant efforts of our Branch Head Dr. Rahul Johari, we have grown spontaneously. From a team of 15 members last year, we are now a team of 300 members and 12 office bearers moving ahead to achieve excellence.

With this, we would like to express our gratitude towards the ex-office bearers. We hope to continue this spirit as we move ahead in the year 2021 and provide the students with an unmatchable experience.

Branch Head: Dr. Rahul Johari
Assistant Professor, USICT
Chair: Gaurav Jain
Vice-Chair: Vardaan Grover
Secretary: Akshad Bhandula
Membership Chair: Divyansh Rastogi
Treasurer: Chaitan Dev
Web Chair: Anmol Goel
Executive Members:
Shushant Haluwai
Harsh Goyal
Anuj Talwar
Tarun
Manoj Kumar
Vishesh Gupta

Ex-Office Bearers:
Chair: Sapna Chaudhary
Secretary: Vineet Kumar
Web Chair: Aakash
Mentor: Tamanna Arora



ACM USICT

VISION “We see a world where computing helps solve tomorrow's problems - where we use our knowledge and skills to advance the profession and make a positive impact.”

Association for Computing Machinery (ACM) is a society that brings together Computer educators, students, research scholars, professionals, and enthusiasts on the same page and caters to discussions among them. ACM holds almost all the big events that take place in the computing industry. From Turing Awards to ACM ICPC, ACM is entitled to honor all the computing advancement taking place over the world. The motto of ACM is "Advancing Computing as a Science and Profession".



ACM India is the branch of ACM that takes care of all the operations related to computers in India. Currently, led by Prof. Jayant Hasrita, ACM India holds multiple events every year to promote and identify computing talents across the country.

USICT ACM Student Chapter is the student chapter of ACM in USICT, GGSIP University, Delhi. We are dedicated to providing students of USICT a platform to excel in the computing world. We hold workshops, events, and competitions on various technologies to make you aware of them. With continuous support from Dean, USICT and Dr. Rahul Johari, Branch Mentor of ACM USICT, we have grown leaps and bounds in the last two years. From a team of 15 members last year to over 200 members this year, ACM USICT has come a long way.

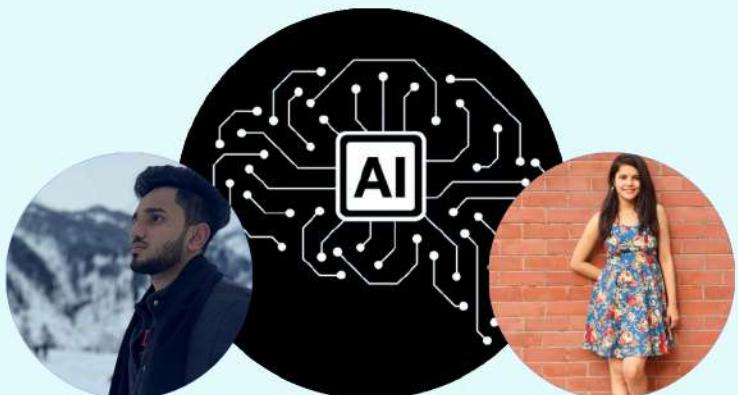


CLUBS OF USICT ACM

INNOVATE AI

The objective of Innovate AI club is to create awareness and equip the students with the ability as well as skills to analyze and understand the technology in the field of Artificial Intelligence.

Together with different clubs under ACM, we work towards galvanizing a community that encourages collective learning and synergistic growth.



ACM WEBIFY CLUB

The ACM Webify Club is responsible for managing and organising the web development activities and events organised under ACM USICT.

Fun activities such as quiz, hackathon etc. are organised by the club under ACM throughout the year where students can show off their skills and win swags.



ACM APPETITE CLUB



The ACM Appetite Club is responsible for managing and organizing the application development activities and events organized under ACM USICT.

This club is to promote a community of like-minded people who believe in collaborative application development and helping each other out whenever needed.

ACM RESEARCH CELL

Research Cell is not just a domain for highly qualified professionals but is a platform for anyone who has the curiosity to know and the ability to think out of the box.

Our goal is to guide the students of USICT towards excellence in their domain of interest and to encourage them to conduct research and look for new possibilities in that domain.



THE ICPC CLUB

ACM ICPC Club, USICT focuses on spreading the culture of Competitive Programming at different levels.

We are dedicated to help coders to compete globally and bring laurels to the country.

ACM ENTREPRENEUR ARENA



The purpose of this club is to create a platform to bring individuals, who desire to establish, administer and succeed in a startup venture along with risk entitled to it, to make profits and contribute to society, together.

Through unique and distinctive ideas, this club helps in cultivating the quality of ingenuity in students.

ACM CYBER CELL

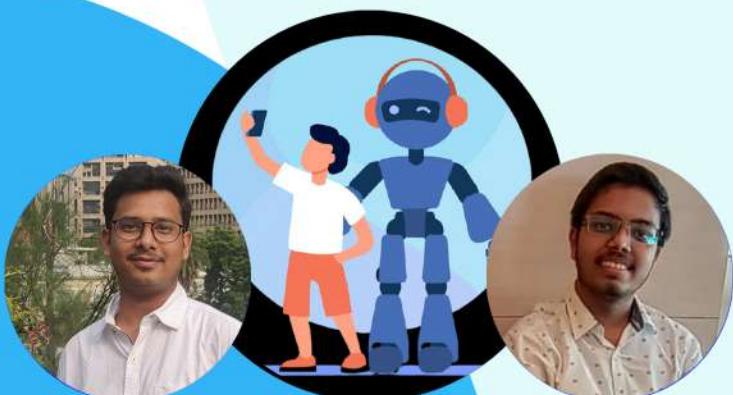
The ACM Cyber Cell Club, is an initiative by USICT students to raise awareness and encourage discussions concerning Cyber laws, Cybercrimes, and Cybersecurity.

The cell tirelessly tries to accomplish its motive and makes various moves in that direction through workshops, discussions, blogs, etc.



ACM ROBIOTICS

RobIOTics is the Electronics Club of ACM USICT. It covers 3 major technical fields which are Robotics, Internet of Things, and Robotic Process Automation.



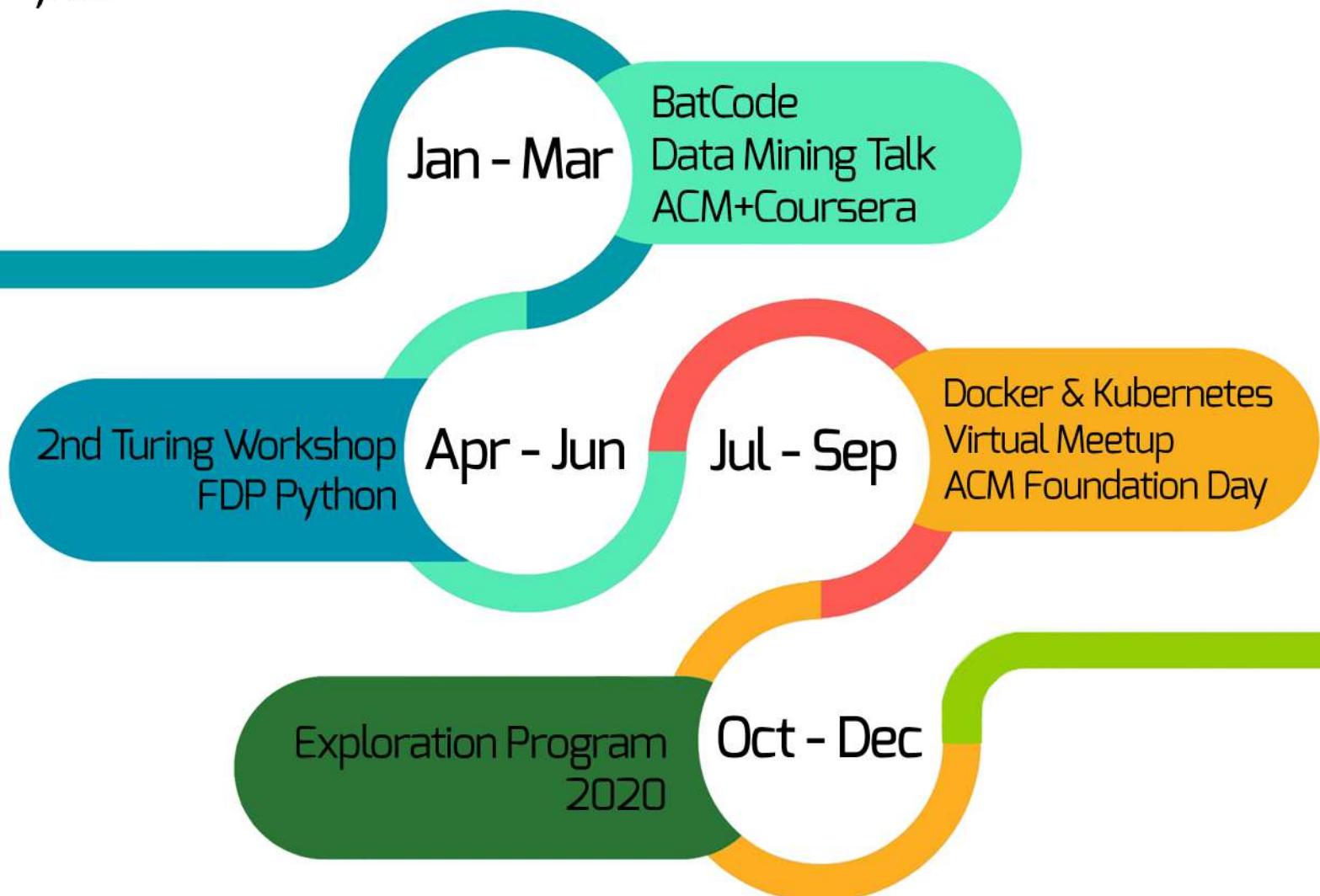
This year we have planned many events like workshops and hands-on sessions. So we welcome all the tech-enthusiasts to join this adventurous journey of ACM RobIOTics.

ACM EVENTS OF 2020

A collage of various ACM-related images. It includes a man speaking at a podium, a bookshelf filled with books, a computer screen displaying a presentation slide with text and a logo, and several social media posts or news articles with blurred text and small images.

Events Timeline

With all the world being stuck at home due to pandemic, ACM, USICT was still at work. We conducted over 10 events consisting of webinars, talks and competitions on various topics aiming Advancing Computing as a Science & Profession.
As the year full of hope lies ahead, we take a glimpse of a wonderful year.



BAT CODE CODING COMPETITION

Bat Code was an online competitive programming competition held on 1st February 2020, in collaboration with Coding Ninjas. With the participation of more than 180 students in the competition, the event gained a lot of popularity among first-year college students from different colleges across the county.

The event consisted of 5 questions designed by faculty at Coding Ninjas. The questions were based on Data Structures and Algorithms that can be coded in any one of C, C++, Java, or Python.

It was a 3-hour long event where students were given questions to test their ability to think and code as quickly as possible. The competitors were given the first-hand experience of the types of questions that are being asked in different placement interviews coding rounds of different companies.

Apart from this, prizes worth 10k along with participation certificates were awarded.



1. SHUBHAM GARG
2. VIVEK KUMAR
3. GAURAV JAIN

Bat Code

Congratulations!!

You Saved the Gotham City!!

USICT ACM STUDENT CHAPTER
ADVANCING COMPUTING AS A SCIENCE AND PROFESSION



ADVANCES AND CHALLENGES IN DATA MINING

ACM, USICT organized a talk on "Advances and Challenges in Data Mining" on 3rd Feb 2020 starting from 11:00 AM in the C-block auditorium. Over 80 students took part in the seminar and benefited from it. The talk was given by Prof. Raj K. Bhatnagar who is a professor at the Department of Electrical Engineering and Computing Systems, University of Cincinnati, USA. Prof. Bhatnagar provided the attendees with some fascinating and valuable knowledge that not only helped attendees to understand Data Mining but also give birth to curiosity for the same.

The talk started with Machine Learning and how it is used in Data Mining. After that, Data Mining was introduced and then the attendees were told about Advancement opportunities that Data Mining possesses. In the latter half of the talk, prof. Bhatnagar also talked about the challenges that are there in Data Mining. The event concluded with a vote of thanks by Chapter Head, Sh. Rahul Johari followed by distribution of memento to the guest.

Light refreshments were reserved to all. The event was a huge success as it was being attended by Research Scholars, Graduates, and Undergraduates and all of them were in praise of the event.



ACM USICT + COURSERA COLLABORATION

With the world being stuck by COVID-19 and all the world being bought to a halt by the pandemic, college students were among the most affected sections of society. With the increasing competition in the world, the students need to add sufficient skills to be successful. But with the world being put to a halt, the financial condition of many students seemed to be a hindrance in this path.



ACM USICT,in collaboration with Coursera, gave a free subscription of Coursera courses in the time of pandemic to round 600 students. This helped students to learn the skill whatever they want, without actually worrying about the financial crunch. The drive was also helpful to get students started with some of the new technologies, from the best Universities across the globe.

University and college students, learn for free with Coursera

coursera

The advertisement features a central image of a smiling young woman holding up a Coursera certificate. Surrounding her are several smaller images of diverse individuals, each holding up their own Coursera completion certificates. A red arrow points from one of the smaller images towards the central one. The background is light blue.

2ND TURING WORKSHOP ON SOFTWARE APPLICATIONS, TOOLS AND TECHNOLOGIES BY USICT'S ALUMNI



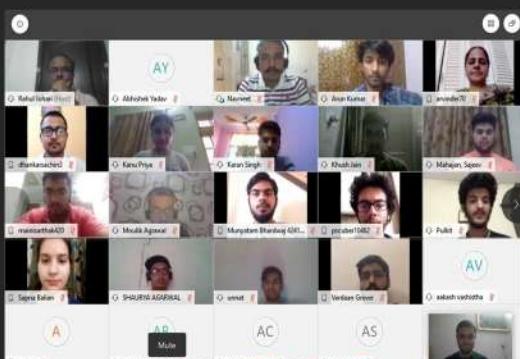
ACM@USICT organized a workshop on Software Applications, Tool, and Technologies at its campus on 20th June 2020. The workshop was a digital workshop that took place on the Cisco WebEx platform. It was conducted between 11 AM to 1 PM and then 3 PM to 5 PM. The workshop was intended to give an idea to the students about the practical application of the technologies they are learning and what more the world of technology has to offer to them.

The event started with the inauguration speech by the Dean of USICT .She focussed on the importance of practical knowledge over theoretical stuff. After her address to the students, the event moved to the honourable speakers.

The first speaker of the event was Mr. Navneet Bhardwaj. He is currently acting as Senior Technical Architect at Societe Generale. He addressed the audience about the use of blockchain in KYC in Investment Banking.

Our second speaker was Mr. Sanjeev Mahajan who is currently a Software Developer at Amazon. The talk was on the various applications of Amazon Web Services(AWS) and its future scope. Our third honourable speaker was Mr. Lakshay Tutlani, who is currently a senior software engineer at Zenon. Mr. Lakshay told the attendees about Robotics Process Automation, and the change that it came up with in the world of process automation.

To add more value to the event, our last speaker was Mr. Nipun Garg, who is working as a senior software engineer at stage3.co. The session was based on do's and don'ts of the IT industry. The event concluded with a vote of thanks by Chapter Head, Sh. Rahul Johari followed by distribution of memento to the guests. Over 60 students took part in the event.



Navneet Bhardwaj

Sajeev Mahajan

Lakshay Tutlani

Nipun Garg

FACULTY DEVELOPMENT PROGRAM (FDP) ON PYTHON

1 Week Online FDP on Python
(From 29 June to 5 July)

Organized by ACM@USICT Chapter and CAD DESK

- The FDP is free of cost, but prior registration is mandatory.
- Max Batch Size : 40 (Registration based on First come first serve basis)
- E-Certificate would be provided to all registered Participants.

Register at : <http://bit.do/pythonfdp>



ACM USICT organized a Faculty Development Program on Python from 22 June to 29 June, for the faculty members of USICT in collaboration with CAD Desk India.

There were a total 40 seats in this free program. The Faculty Development Program, as the name suggests, was meant to develop the skills of fellow faculty members in the technologies that are required in the modern world.

The event spanned for a week and everyday 2 hours of classes were given to the faculty of USICT to develop their skills in Python. Event started with the basics of Python and then it moved to some of the intermediate topics like arrays and functions.

Overwhelmed by the response of the first FDP, we decided to extend the FDP for 7 more days, this time, for all GGSIPU teachers. The event called every teacher in GGSIPU main campus to be a part of it. 40 teachers were given this opportunity on a first come first serve basis.



DOCKER AND KUBERNETES VIRTUAL MEETUP



On 31st October ACM USICT Chapter organised an interactive session from 10:00 am to 3:30 pm that introduced the students to multiple fields and domains of technology in a quick yet thorough manner.



The speakers were 2nd and 3rd year students who are working in the respective fields they spoke about. Each speaker presented his talk with the help of a presentation for about half hour followed by QnA of the students. The session was made interactive by using presentations, videos, etc. The event was attended by over 120+ students. Light refreshments were served to all and there was a cultural program at the end.



ACM FOUNDATION DAY

ACM, USICT celebrated the foundation day of ACM on 13th September 2020, to mark the foundation day of ACM, USICT. The event took place on the CISCO WebEx platform. The program was intended to spread knowledge about ACM among the students. The theme of the event was "Aatmanirbhar Bharat".

The event started with poster making competition on the theme of Aatmnirbhar Bharat. Participants have to share their screen to showcase their artistic skills. It was followed by questions from the judges about the concept of the drawing. The total participation of 40 students was seen by the events.

The event continued with a tech talk by Prof. Jayant Haritsa, President, ACM India Council, and Professor IISc, Bangalore. He talked about the prospects of technology in various fields. The talk was a very fruitful one and was loved by the attendees.

As the final event, we organized a quiz based on Aatmnirbhar Bharat. Participants were asked 30 questions based on Aatmnirbhar Bharat. The event took place on Kahoot and the participant with the highest score won. The foundation day program was a huge success and received positive feedback from everyone.



ACM USICT STUDENT CHAPTER
Celebrating
ACM
FOUNDATION DAY

11 am, Sunday, 13th September 2020

THEME
आत्मनिर्भर भारत

INAUGRATION BY
Prof Jayant Haritsa
President, ACM India Council
IISc, Bangalore



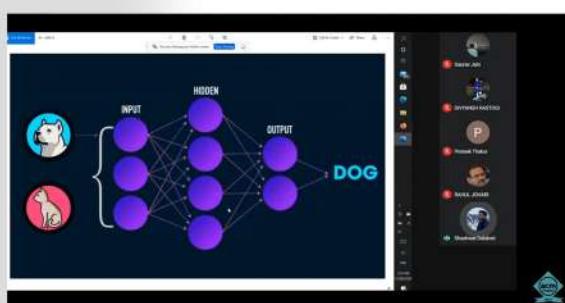
EXPLORATION PROGRAM 2020



Playbacks: 889 Peak concurrents: 143 Total watch time: 182:46:52

On 28th December ACM USICT organized an Exploration Program On 28th December ACM USICT organized an Exploration Program to welcome freshers from B.Tech (CSE/IT/ECE), MCA(SE), M.Tech(CSE/IT/ECE/RA) and sensitize them towards ACM (Association of Computing Machinery) and spread awareness about various technical and non-technical events organized by ACM USICT Student Chapter. Students were encouraged to join ACM.

This time, ACM USICT has come up with 8 different clubs covering different skills that can help students in the longer term. This includes Web Development, App Development, Robotics and IoT, Cybersecurity, AI, Research, Entrepreneurship, and Competitive coding.



The event was organized on Google Meet from 3-5 PM and also streamed on youtube. Rahul Johari, branch head, inaugurated the event by briefing all the students about ACM and encouraged them for a brighter future ahead. After the brief of Sh. Rahul Johari all the respective club leads came and gave a presentation about their respective fields. The event was followed by interaction at the end. This exploration program was being watched by 130 students on YouTube.



ARTIFICIAL INTELLIGENCE CURING THE MENTAL HEALTH

With COVID-19 taking the world by storm and forcing everybody to stay at our home, mental health is an issue to address. With the suicide of famous Bollywood actor "Sushant Singh Rajput," the mental health issue also gets a place in talks of the common man. I was just wondering how big is the problem until I find the stat mentioned below by COVID-19 Blues study, SPIF, Bangalore:

'Nearly 30% of therapists said they had observed an increase in people who have self-harmed as well as expressed suicidal ideation or death post the outbreak.'

The above statistics are scary and ask for immediate action on mental health. So, the government needs to promote mental health awareness and should reach out to the doctors as early as we understand that our mental peace is disturbed. Seems simple, right? But that is not the case. According to The Economic Times report dated 10 October 2019, around 7.5% of the Indian population is affected and there are less than 4000 experts in mental health. The situation has worsened during the lockdown.

But is that it? Should we cry on the lack of mental health professionals and leave it as it is? Looking around, it is quite inevitable that we are in a global era. Artificial intelligence has now become a part of our everyday life and has started easing our lives. So, can't we use Artificial Intelligence to get rid of this problem especially in a country like India?

Artificial Intelligence, cannot provide us with the care and empathy of a surgeon but it can help us to tell our current state and what we need to do at a minimum to keep our mental health good. As AI is backed by a lot of data that is been fed to it, it's quite difficult for an AI engine to be wrong, at least at the basic steps of the cure.

Now let's have a look at what all can AI provide us in context to get rid of mental health issues as a country:

1. Fewer Doctors? AI got you covered

As discussed earlier, India has a huge deficiency of Mental therapists and mental health experts. With the situation not seeming to be getting better anytime soon, it is much more practical to put an AI engine at work to solve the basic mental health problems at the least.

2. With You, Always!

Imagine an app that can ask questions from you and based on that, can predict what's the cure to keep your mind fresh and healthy. Sounds interesting, isn't it? That's exactly what AI can do. AI, if made to predict mental health problems and provide a solution for them can reduce the hassle of going to the therapist as much as possible.

3. Apps don't judge

With more and more people being a victim of mental health, mental health issues are still a taboo on our society. Most people fear to go out and seek help in case of depression and anxiety, having an app using AI can help you out. As no one will get to know about the app, a person can have treatment without letting society know. And you know what's the best part? Apps are not judgemental.

These are a few of the many benefits of having AI in mental health can have. Young researchers and scientists are working in this area and we must wait for the time when we all will have a personal therapist, on our phones.

Green House

Another lesser visited place on the campus where you can see some vehicles going by now and then. Greenhouse symbolises the eco-friendly vision of the university. It is behind the C-block and is often being ignored on your way to the basketball court. Greenhouse is definitely a place you want to visit if you are a nature enthusiast.



Badminton Court

Away from all the academic areas, the badminton court is a different world in itself.

You can see students playing their heart out and a sweet sound of shuttle hitting the racket.

With all professional settings you can see a 100% commitment of students as they are playing some international game. Badminton is a great exercise and it's even more great when you get to play in an atmosphere like this.



Kendriya Bhandar

Apart from the hustle bustle of the students, there lies a quiet and peaceful place. You can see a few students going in and out with some eating stuff, but generally, it is quite a peaceful place. This is the most famous place at the time of admissions when long queues were formed outside banks and students wanted to get some snacks. This shop is located just below the bank and is a great treat as you can enjoy eating chips, while you watch students playing on the football ground.



Student Cell

If you are a student of IPU, there is no way that you are not aware of the importance of the student cell. Located at E- 317, the student cell is a go-to place for every student for all their issues. Be it applying for a library card or to get information about reappearing exams, the student cell has the most demand among students. And don't be surprised if every day two or three students from your class have to go to the student cell.

CAMPUS TOUR

RainWater Harvesting System

It is the place that even most of the last year's students don't know about. Our university has a rainwater harvesting system on the side of the A-block building. This is one of the least known places of the University but it has a lot of scenic beauty to it. If you want to spend some time with yourself, this is a place for you.



Dean Office

The most highly authorized place of the college, the Dean Office is the place from where all important decisions are made . Located at E- 202, this is the most important place of the college.

None of the decisions, big or small, cannot be implemented without the permission of Dean. And you know what? You have to go outside the dean's office at least once a semester. Reason? Because your semester timetable is put out there only. Cheers!

THE UNKNOWN COLLEGE

Indian Bank

What to do if your library-card is lost? What if you have to pay a fee for the next year? What about the reappearing fee? The answer is the same, go to the Bank and get a challan. For every money-related transaction in IPU, you need to know that there exists a Bank in your campus. Away from all the campus, in front of the football ground and on the side of Boys Hostel, Indian Bank has its branch open. Almost all the official transactions are preferred from this branch only and hence you now know what official means when they say the word "Bank".



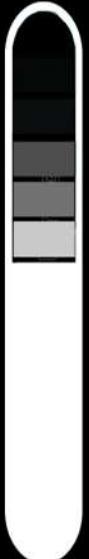


VISION 2 1

2020 was quite an eventful year for ACM, USICT. We kept working with dedication and held a plethora of events and workshops to build up a culture for computer science enthusiasts. But, that is not it. As we head towards a post-pandemic world of 2021, we have laid out our roadmap to ensure smooth functioning of ACM, USICT.

ACM USICT, keeping its vision to promote computer science skills in mind, have planned to host a number of events in the upcoming year, hackathon being the first one to start. We are dedicated to conduct technical events such as Workshop on Cyber Security, Capture The Flag(CTF) and coding competitions. Moving ahead, a mentoring program for students is also planned. As there is a precedent that ACM is all about technical stuff, we also have planned to conduct some non-tech events like gaming competition and blog writing.

Moreover, we understand what the society has given us and the importance of giving it back to the society. As a plan, we also want to do a Education outreach program for children. These are some of the events that we have planned and will try our best to make them happen. So, stay tuned with us for what will be a year to remember.



CONNECT WITH US ON ONLINE PLATFORMS:

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ACM USICT Student Chapter

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WE ARE JUST A
QR SCAN AWAY



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