



**IEEE Student Branch**  
**Akhilesh Das Gupta Institute Of Technology And Management**

**Code Brewer**

**EVENT REPORT**

**Date:** 29<sup>th</sup> March 2023

**Event:** **Code Brewer**

**Time:** 12:30 P.M. onwards

**Venue:** IEEE maker's space

**Organizers:** IEEE ADGITM

**About the Event:**

IEEE ADGITM has conducted an event 'Code Brewer' during ADGITM Annual Techno Cultural Fest UTKARSH 2023. It took place at IEEE Maker's Space on 29<sup>th</sup> March from 12:30 pm to 1:30 pm. Participants were given a task to create the front end of their website in a given time. Anshika Bansal (Chairperson IEEE ADGITM) judged them for their performance and zeal to create an appealing website. This event was a huge success and has enjoyed by everyone. Nitika Tyagi who had deliver the perfect website one could expect at given time constraints won this event.

**OBJECTIVES**

**The objectives of this event were:**

- To combine the knowledge of HTML and CSS with Creativity.
- To deliver quality within time constraints.
- To develop Confidence in students to showcase their projects.



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Photos from the event :





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**INSTILL 2.0 – Plantation Drive & IDEathon**

**EVENT REPORT**

**Date:** 25<sup>th</sup> April 2023 and 26<sup>th</sup> April 2023

**Event:** **INSTILL 2.0 & IDEathon**

**Time:** INSTILL2.0 - 2:30 P.M. Onwards on 25<sup>th</sup> April 2023

IDEathon – 2:30 P.M. Onwards on 26<sup>th</sup> April 2023

**Venue:** INSTILL 2.0 - College Ground

IDEathon – IEEE maker's space

**Organizers:** IEEE ADGITM

**About the Event:**

IEEE ADGITM has conducted INSTILL 2.0, A Plantation drive, on Earth Day, dated 25<sup>th</sup> April 2023. The event took place at the college ground on at 02:30 pm. All the volunteers who participated in the plantation drive were involved in planting trees along with all the members of IEEE ADGITM. Students were allowed to bring their own saplings so that a maximum number of plantations could be reached by the contributions of IEEE ADGITM and other volunteers. Respected CEO Sir- Shri. S. N. Garg, Director sir- Prof. (Dr.) Sanjay Kumar and other dignitaries graced the event with their presence and shared beautiful moral values and perspectives on nature.

IEEE ADGITM has conducted IDEathon in IEEE maker's space for the competition among the participants. In IDEathon, participants had to present an idea for sustainable and environmental-friendly development using technology such as UI/UX, web technology, etc., as per their convenience. Each participating team had at least one member of IEEE, and a team had a maximum of two members. They were given 10 minutes for the presentation round. Prototypes were also displayed by some of the participants, which fascinated the judges as well as other participants.

Anshika Bansal, Chairperson, and Nitika Tyagi, WIE Chairperson, were the judges of IDEathon. With all their experience and knowledge, they wisely judged each idea presented to them and declared Jatin Chopra and Nehal Garg as the winning team. On the other side, Keshav and Anjali were the runners-up of IDEathon. Various goodies and recognitions were provided to the winners as well as all the participants. The event was a huge success and provided motivation and inspiration to all.



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**OBJECTIVES**

**The objectives of this event were:**

- To create awareness about the necessity of sustainable development in aspects of nature.
- To let people, know about the earth day.
- To promote vegetation around our community and environment so that we live a healthy life.
- To promote involvement of technologies in development of greener world.





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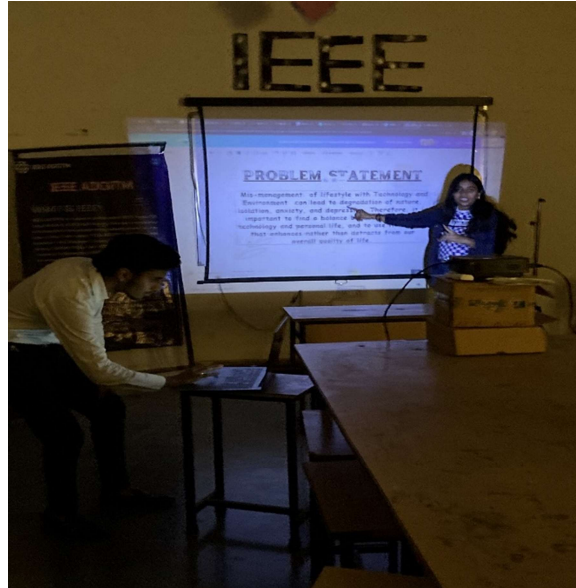
Photos from the event :



**INSTILL 2.0 – A Plantation Drive**



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**INSTILL 2.0 – IDEathon**



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**RoadMap for Tech Placements**

**EVENT REPORT**

**Date:** 29<sup>th</sup> April 2023

**Event:** **RoadMap for Tech Placements**

**Time:** 4:00 P.M. Onwards

**Venue:** Google Meet (Online)

**Organizers:** IEEE ADGITM

**About the Event:**

IEEE ADGITM has conducted an Online Session on Roadmap for Tech-Placements. The Speaker was **Mr. Sanyam Jain** who grabbed a Package of 26.0 Lakh Per Annum. He had shared his journey for cracking a Product Based Company and starting his career as a SDE at GRAB. The Attendees were enlightened by his Preparation journey and gain insights that might help them crack an Internship of their desired company. This Event was hosted by Tushar Rajora (Computer Society Chairperson, IEEE ADGITM). At last, the students were given a Question bank for free where they could test themselves with Coding problems. The Students were advised to maintain consistency in solving Questions and make accounts in necessary platforms needed to do so.

Mr. Sanyam Jain also explained about the importance of LinkedIn in order to reach out to people for Off-campus Placement. He made a routine one should follow in order to balance Coding with College Studies. Then he bust some myths students have for Competitive Programming CP for gaining an Internship. Finally, he tried to solve the Questions of our Attendees that might not covered in his Presentation.

**OBJECTIVES**

**The objectives of this event were:**

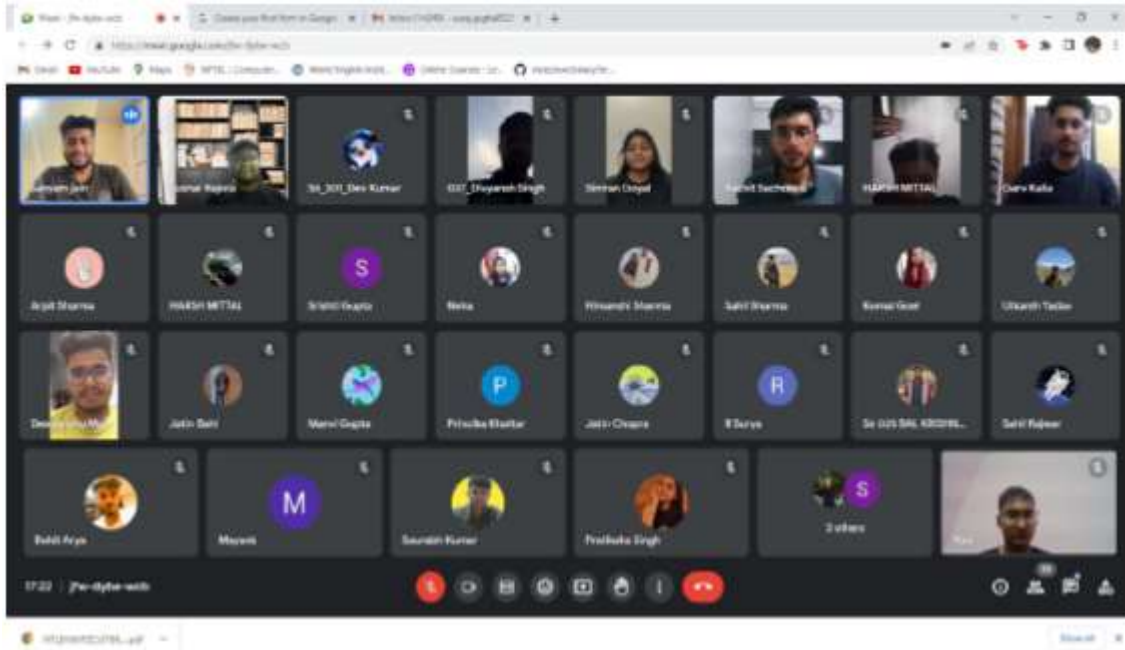
1. Giving a list of things necessary things needed for Interviews.
2. Busting some Common Myths.
3. To develop Confidence in students to build their projects and grow their Resume.







# IEEE Student Branch Akhilesh Das Gupta Institute Of Technology And Management



# **Dr. Akhilesh Das Gupta Institute of Technology & Management**

## **Report on “FDP on ADVANCED MATLAB APPLICATIONS- 24th November, 2022”**

<b>Dated:</b>	24/11/2022
<b>Department:</b>	Electronics and Communication Engineering
<b>Venue:</b>	Smart Classroom, ECE Department
<b>Objective:</b>	This program aimed to give exposure to faculty and staff members in the novel MATLAB tools and applications in the area of Artificial intelligence (AI), machine learning (ML) and deep learning (DL).

### **Activities:**

The guest speaker was Mr. Manoj Kumar, Sr. Application Engineer, DesignTech Systems Pvt. Ltd. The session started with Mr. Manoj Kumar familiarizing the faculty and staff members with the concept of MATLAB.

Afterwards, he explained the concepts of Artificial intelligence (AI) in detail, which, he described as the capability of a machine to mimic intelligent human behavior.

Then, he proceeded with the explanation of all the relevant field in AI which are helpful for the electronics and communication engineers. He told about the applications of MATLAB in machine learning domain.

The data can be classified using MATLAB tools and can also be integrated with SIMULINK models.

The trained models can be deployed to hardware platforms by generating and reading portable codes. There are various Machine Learning Applications such as signal processing. Radar, Wireless communication in which one can incorporate machine learning into our applications whether we are building models, engineering features, or generating code and deploying to embedded systems.

Then, he proceeded with explaining Deep learning and its application using MATLAB and SIMULINK. Deep learning is a branch of machine learning that teaches computers to do what comes naturally to humans: learn from experience. It uses neural networks to learn useful representations of features directly from data. These neural networks combine multiple nonlinear processing layers, using simple elements operating in parallel and inspired by biological nervous systems.

He then explained about the various features of Deep Learning Toolbox™ which provides simple MATLAB® commands for creating and interconnecting the layers of a deep neural network. This toolbox helps in the creation of various deep learning models and also helps in creating and generating codes for the same.

Afterwards, he told about the Computer vision workflow, in which he gave a detailed explanation about

image pre-processing, feature extraction and feature classification.

The session was concluded with all the important features of MATLAB and SIMULINK in the area of artificial intelligence (AI), Machine Learning (ML) and Deep learning (DL). Overall, the session was very helpful and relevant for all the faculty and staff members of ECE department.

**Aim of the FDP:**

1. To provide novel applications of MATLAB in the area of Artificial intelligence (AI), Machine Learning (ML) and Deep learning (DL).
2. To provide idea about the workflow and pre-processing of data in ML.
3. To provide the general idea about operating in SIMULINK in the field of AI, ML and DL.

**Outcomes:** Faculty and staff members interacted with the speaker and cleared their doubts in the field of AI, ML and DL in MATLAB.

**Beneficiaries:** Faculties and Staff members of ECE Department

**Photographs:**



# Technorax V8.0

## EVENT REPORT

**Date:** 13<sup>th</sup> and 14<sup>th</sup> October, 2022

**Venue:** ADGITM

**Organizers:** IEEE ADGITM

### About this Event

One of the biggest celebrations of technology in the world is the celebration of the IEEE day. All the members of IEEE all over the world celebrate IEEE day to mark the great technological advancements that have been done so far and to encourage young minds to come forward with their ideas to change the world.

IEEE ADGITM celebrated IEEE DAY on 13<sup>th</sup> and 14<sup>th</sup> October 2022 as its annual flagship event **TECHNORAX V8.0** which is also the official technical fest of Dr. Akhilesh Das Gupta Institute of Technology and Management. The celebration was much more enthusiastic and grander from the previous ones with technical as well as non-technical events. Initiation of the new events like Robo race, LFR Race, Robo soccer, Robo tug o' war, Electro Geeks helped in encouraging students and professionals to take up engineering as a passion and not profession. This also helped the students to know more about IEEE as a community of enthusiastic and passionate engineers who work for the betterment of society.

These events were prepared keeping in mind the interests and technical exposure of the students and professionals. Colleges from all over India were invited to this technical festival. Participation was received from other student branches and colleges which helped in the growth of the whole IEEE community.





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Day one (October 13<sup>th</sup>, 2022) began with the inaugural ceremony of the celebration by lighting the lamp by our **Honourable CEO- Shri S.N. Garg, Respected Director sir- Dr. (Prof.) Sanjay Kumar, Director IQAC and Dean-Student Welfare-Respected Prof.(Dr.) Niranjan Bhattacharyya along with our Branch Counsellor Mr. Mohd. Saquib Faraz and Head of Departments of respective department.** Day one was scheduled to have a 12-Hour Hackathon, T-Hacks 5.0 where 16 teams from different colleges and student branches were invited. These 16 teams were selected among 1028 teams that registered for the event after peer rigorous evaluations that the organising team conducted.

At the closing ceremony, the top 2 winning teams of the hackathon were presented with cash awards along with winning certificates to mark their win and appreciate their ideas & effort.

A cake cutting ceremony at the auditorium marked the end of this energy-packed day one of the event. All the volunteers had lots of fun and celebrated IEEE day with exuberance and determination.

Day two (October 14<sup>th</sup>, 2022) consisted of many events including an exclusive house packed seminar was hosted by **Founder and CEO of GeeksForGeeks, Mr. Sandeep Jain**, which was a huge success and a milestone in the history of IEEE ADGITM and Technorax. Following this, there were many fun gaming stalls set up to beat the blues and provide some fun non-tech experience to our attendees. An open mic session took place in the auditorium where the students flaunted their talent and it served as a great interactive session with the attendees and the participants.

Then a career guidance session was conducted by **Coding Blocks, where our speaker, Mr. Monu Kumar** guided the students on how they can make their profile more competent and bag great placements. Events like, Robo wars, Robo Soccer, Robo Tug O' War, Tech-Expo were also conducted.

Thus, the event ended up not only being a platform for great minds to showcase their projects and technical advancements but also inspiring many others.



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TECHNORAX V5.0 ended with acknowledging the efforts of the whole team and the participants in the closing ceremony.







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***Mr. Sandeep Jain,  
Founder and CEO of GeeksForGeeks.***



***Mr. Monu Kumar  
Instructor and Product Engineer  
Coding Blocks***



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*From left to right Honourable CEO- Shri S.N. Garg,  
Respected Director ADGITM - Dr. (Prof.) Sanjay Kumar,  
Director IQAC and Dean-Student Welfare-Respected Prof.(Dr.) Niranjana Bhattacharyya*

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# Dr. Akhilesh Das Gupta Institute of Technology & Management

## Report on “INDUSTRY ACADEMIA INTERACTION DAY- 8 th October,2022”

- Dated:** 08/10/2022
- Department:** Electronics and Communication Engineering
- Venue:** Auditorium
- Objective:** This program aimed to give exposure to students to the Industry and the upcoming technologies and fields to indulge in.

### **Activities:**

The session started with an enlightenment quote “To the optimist, the glass is half full. To the pessimist, the glass is half empty. To the engineer, the glass is twice as needs to be.” The session was carried forward by offering saplings and momentous to all the speakers for the session.

Our first guest was Ms. Sudeshna Borah, a well know Chief Architect in Digital and Emerging Technology Ernst and Young, who began the day of Industry-Academia Interaction. She started by describing how she went from being a small-town girl to a well-known chief architect who works for Ernst and Young in the area of new and emerging technologies. She described how she overcame all of the challenges to stand up. She also discussed her prejudice against male dominance and how it didn't stop her from succeeding. She spoke with students on environmental degradation in particular. She inspired students and urged them to have faith in themselves and pursue their goals. Later, she spoke in detail about a few cutting-edge technologies, including green cloud, ESG, data science, etc.

Our second guest was Mr. B.K. Khatri was incredibly vivacious and engaged with the students. He is currently working as the Director- of Government Business SUSE India- Indian Subcontinent. He communicated with students using his slides, answered their questions, and provided them with guidance for their life ahead. He gave students an explanation of how business is run and offered his extensive expertise. Later, he inspired students and helped them realize their potential. He motivated the students to push their limits to achieve their goals.

Our next guest speaker was Mr. Ramesh Sharma who holds the position of Sr. Principal Engineer in the Cadence Design System. With his vast years of comprehensive work experience in his field, not only he shared his valuable learnings with the students but also guided them in various sectors of life. Not forget to mention that a questionnaire was also held in which the students participated enthusiastically which ultimately made the session very interactive. He also expressed confidence that students will certainly come out with solutions to the problems they might be facing. Later on, he talked about some of the philosophical topics thus making a prominent conclusion of the session.

In end, one must say that this was worth attending the session. The students gained a lot through it.

**Aim of the Mentoring program:** 1. To give Industrial exposure to students by the experts.

2. To give an idea about the upcoming Technologies to the students.

**Outcomes:** Students interacted with the speakers and cleared their doubts.

**Beneficiaries:** Student Of ECE Department

**Photographs:**















# **Dr. Akhilesh Das Gupta Institute of Technology & Management**

Report on “Alumni TALK”

By Mr. Manish Singh

<b>Dated:</b>	01/10/2022
<b>Department:</b>	Electronics and Communication Engineering
<b>Venue:</b>	Online
<b>Timing:</b>	1 pm to 2 pm
<b>Objective:</b>	This programme aimed to give the platform for placement opportunities in Android development by Mr. Manish Singh, former winner of the Smart India Hackathon abbreviated as "SIH."
<b>Activities:</b>	The HOD of the ECE department, Prof. (Dr.) Niranjan Bhattacharyya, the event incharge, Ms. Richa Malhotra, and other faculty members welcomed Mr. Manish Singh.

Manish is an Android developer at Unacademy and has worked on projects in robotics and home automation. He has the knowledgeable of Firebase, Raspberry Pi, Java, Android Development, and Arduino.

First, he told the students about his journey from ordinary student to inspirational figure. He always had a dream of being an engineer. To make his engineering studies more interesting, he started to work with Arduino and projects based on it, like the Line Following Robot. As he stated, "If your journey starts to look boring, your goal will become hard to achieve." This thought took him to participate in SIH, KPIT, and e-Yantra. He and his friend started doing freelancing during lockdown, whose output came out wonderful. Then, he discussed what to study for Android development and how a different year student can work to polish their skills for it. He then discussed internships in big companies' and start-ups'

He enthralled all the young minds with a detailed discussion numerous opportunities and career paths available. He also the student to only go with their passion and interest. He was enthusiastic about creating awareness about the scope of Android application development. He taught how to make efficient use of LinkedIn for job and internship opportunities. An open questioning session was held in the end to resolve all the queries in the minds of students. He also motivated the students to follow their passion. He discussed regarding the types of

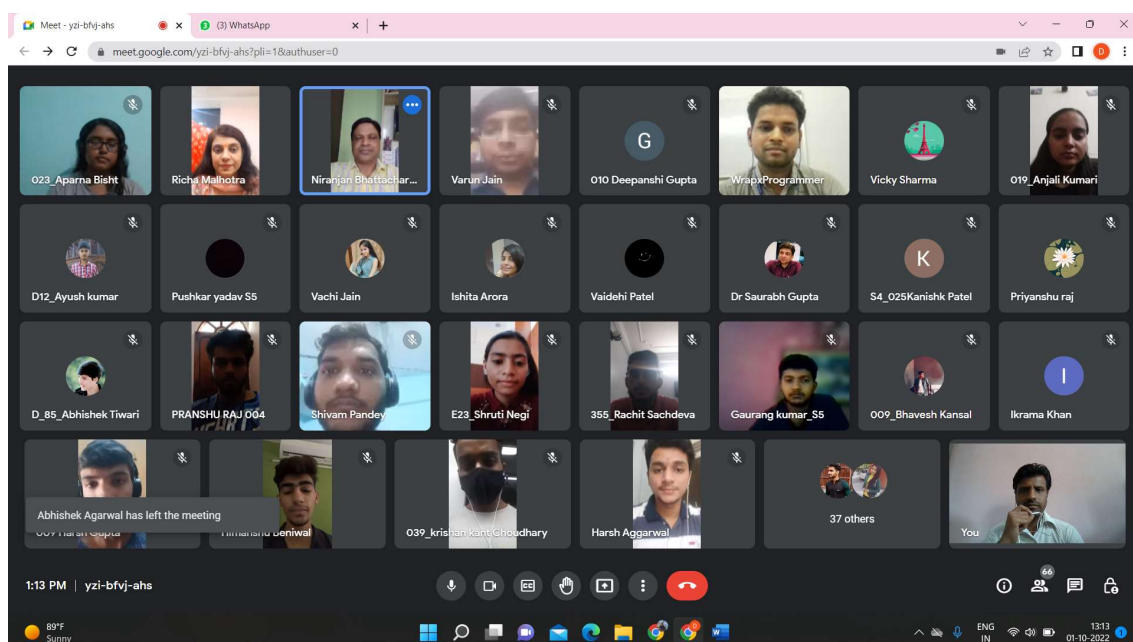
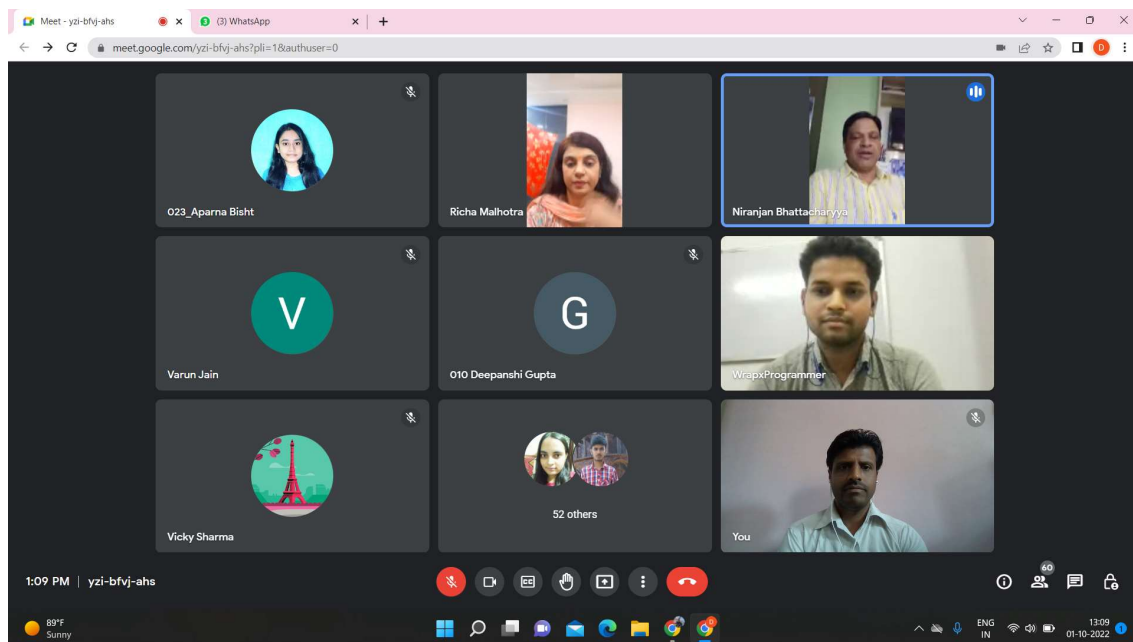
questions put in interviews.

Finally, Mr. Devraj Gautam, ECE department faculty, appreciated and thanked Mr. Manish Singh for sharing his experience and taking out his valuable time.

**Outcomes:** Students interacted and cleared their doubts.

**Beneficiaries:** Students of ECE departments

### Photographs:



# **Dr. Akhilesh Das Gupta Institute of Technology & Management**

## **Report on “Alumni TALK”**

**By Mr. Vinay Verma**

- Date:** 18/09/2022
- Department:** Electronics and Communication Engineering
- Venue:** online
- Timing:** 2 pm to 3 pm
- Objective:** This program aimed to give the platform for placement opportunities in artificial intelligence field with image processing by Mr. Vinay Verma who is former chairperson IEEE ADGITM.
- Activities:** The HOD of ECE department Prof. (Dr). Niranjan Bhattacharyya, event in-charge Ms. Richa Malhotra, and other faculty members welcomed Mr. Vinay Verma.
- He is Machine Learning Software Development Engineer, Former Senior Computer Vision Engineer at Wobot.ai and former Vice Chairperson IEEE ADGITM.

First of all, he told us about computer vision and role of college studies in it. He started with an introduction to computer vision and how interested students can pursue career in it. He emphasized on the fact that proper amount of data and knowledge of mathematical calculation is always necessary for working with machine learning. He gave a detailed insight of how the image is processed in machine learning and the output is predicted. All these skills need a lot of training and we must refer to related books for the same. Next, we also got to know about what is deep learning and its various levels, representational learning, AI and real-life models working on it. Neural networks can predict wrong information sometimes by basic structure of images. To optimise this error, we need to show differences and classify things from simple to more complex pattern. At last, he gave us real life examples and project ideas to work upon. The earlier students start picking up these skills, the more they will prepare for the job interviews in the future. He further added that internships help to build up our skills and supplement our knowledge.

He inspired all the young minds with detailed discussion on the ample of opportunities and career options. He also motivated the students to only go with their passion and interest. He was enthusiastic to create the

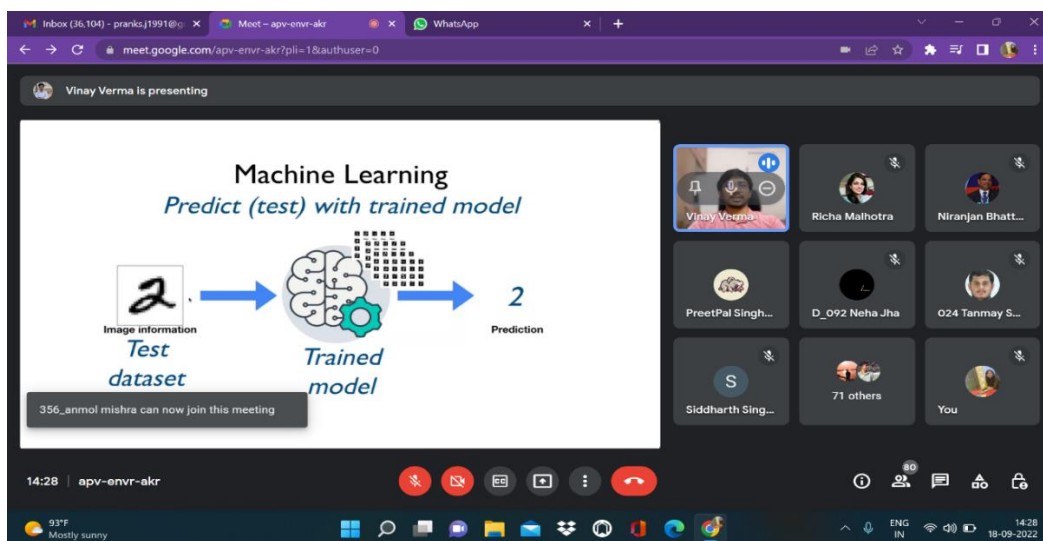
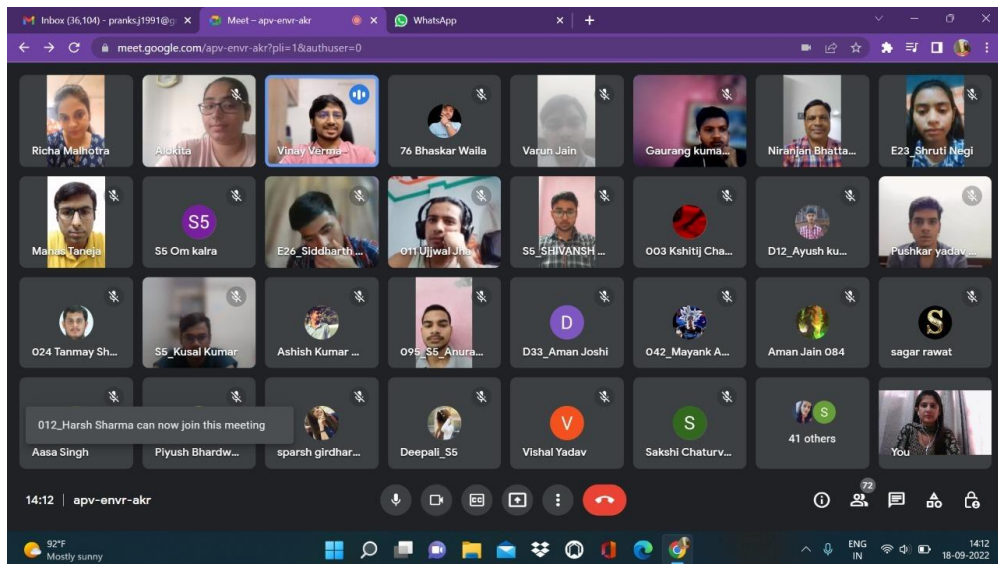
awareness about the scope of artificial intelligence and computer vision. He taught how to make good resume for the job and internship opportunities. An open questioning session was held in the end to resolve all the queries in the mind of the students.

At last, the HOD sir and faculty of ECE department appreciated and thanked Mr. Vinay Verma for sharing his experience and for taking his valuable time.

**Outcomes:** students interacted and cleared their doubts.

**Beneficiaries:** Students of ECE departments

### Photographs:



Inbox (36,104) - pranksj1991@g... Meet - apv-envr-akr WhatsApp

meet.google.com/apv-envr-akr?pli=1&authuser=0

Vinay Verma is presenting

### Possible Options

- Computer Vision Engineer
- ML OPS
- Data Scientist
- SDE Machine Learning
- Researcher
- ... Whatever you want

74

15:06 | apv-envr-akr

93°F Mostly sunny

Inbox (36,104) - pranksj1991@g... Meet - apv-envr-akr (1) WhatsApp

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Vinay Verma is presenting

### Disclaimer

Seminar is all about career, but will study too (a little)

Just to know 😊

If you really like this Field? (Or Hate)

kamal Kumar can now join this meeting

4

14:15 | apv-envr-akr

92°F Mostly sunny



## **Webinar on Internet of Things**

### **EVENT REPORT**

**Date:** 17<sup>th</sup> September, 2022

**Time:** 4:00 PM onwards

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

#### **About this Session**

We know that IoT is facing a high demand nowadays. Over the past few years, IoT has become one of the most important technologies of the 21st century which would shape our future world.

So, IEEE PES ADGITM organized an SIG Webinar on IoT for our IEEE geeks where we demystified the essentials of the Internet of Things. Attendees started from a beginner's level and soon realized why this one skill is so appealing to recruiters.

Our Guest speaker for the event was Mr. Shrey Sharma, Founder & CEO of SmarDEN (IoT Based Startup) | Professional IoT Trainer | IoT and Embedded Engineer. It was an interactive session that was organized keeping in mind that Technology has helped make searching for jobs more convenient than ever. The growth of technology use in business has opened many job opportunities to those with the aptitude and willingness to learn how to use information technology. This session was packed with a lot of information and guidance. It helped the attendees and future aspiring engineers apply new ideas with greater confidence, and helped them to discover aid in taking the next steps towards their career.

#### **Objectives:**

The objectives of this session were the following:

1. To cultivate interest of members in the field of Embedded Systems and IoT.
2. To give a basic idea to the new students on how to use Arduino UNO.
3. To give a basic idea how to use different special techniques in the field of IoT

All of these objectives were realized during the webinar.



**Poster of the event:**







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## **Hack O Heist**

### **EVENT REPORT**

**Date:** 6<sup>th</sup>- 9<sup>th</sup> August, 2022

**Venue:** HYBRID MODE –

- Workshops and Mini Events At Dr. Akhilesh Das Gupta Institute Of Technology And Management, IEEE Makers Space open to all college students
- Hackathon At Global Level – Online

**Organizers:** IEEE ADGITM

**Estimated Number of Attendees:** 250+

**Event Website:** <https://ieeedgitm.com/hackoheist.html>

**Event Social Media:**

1. FACEBOOK: <https://www.facebook.com/ieeedgitm>
2. INSTAGRAM: <https://www.instagram.com/ieeedgitm/?hl=en>
3. TWITTER: <https://twitter.com/IeeeAdgitm>
4. DISCORD: <https://discord.gg/8GJjrZWp>

### **About this Event**

IEEE CS ADGITM presented its next Mega Event Hack O Heist. Hack-O-Heist was a 4-day long event that included featuring workshops, fun mini-events, challenges, and of course, food. Where all can Hack For Fun! This event was followed by a 48-hour Online Global Hackathon! This platform was intended to encourage innovation and creative thinking. These were going on through the day while caffeinated teams of exceptional student innovators and entrepreneurs collaborated on building technology that focuses on changing people's lives. It was an initiative to provide an open canvas to all where everyone is free to paint it however they want.





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We conducted this event as these little efforts will help us collectively achieve our mission to stimulate the learning of the students in our community and college. The vision of IEEE ADGITM is to be a torch-bearing academic group for students, illuminating the way and providing opportunities with a competitive edge for a successful future. We at IEEE ADGITM aim to provide a healthy and stable environment for the students in their respective fields. We will be able to build an even stronger community with the your support and it will be benefitting our community for the longer good as we are big believers in the importance of education and the role technical activities like these play. Educating people who will be shaping not only communities but industries to come warrants balancing institutional performance with the importance of experimentation, creativity & innovation. At hackathons, participants come up with and implement ideas for mobile apps, websites, robots, and other inventions. Hackathons are a fantastic opportunity to learn new skills, expand your network, get jobs, and have fun whether you're just starting out or have been programming for years. We consider hackathons to be an untapped tool for increasing diversity in tech development settings as technology continues to affect our future.

Below is our schedule for the event that was followed:

## Day 1 -

- **Opening Ceremony**
- **Workshops**
  - **Github**
  - **Building A Bot With Python**
  - **Data Science Track - 1**
  - **Resume Building:** Resume Building workshop will help the students who want to stand out from other applicants and build a stellar resume for the hiring process or internships.
  - **Intro To Web Development:** We will deep dive into HTML, CSS, and js for frontend and explore the js framework from scratch to pro. To bring this event more engaging we will mentor a hands-on project that will reinforce your learning from the event into use.
- **The Code Brewer:** It is a challenge where the participants will choose one language from the choices and solve beginner and intermediate-level problems faster than other candidates.
- **Live Music & Shayari:** There will be a short break where the students can express their talents.
- **Indoor Arena:** In order to teach students about three-dimensional spaces, the Rubik Cube was developed as a learning tool. But today it's one of the most well-known riddles in history! Gaming Competitions Like Rubiks Cube, Chess and Jenga Will be held.



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**Day 2 -**

- **Workshops**
  - **PCB Designing**
  - **Building Your Own Alexa**
  - **Data Science Track - 2**
  - **Tech Talk Based On Artificial Intelligence**
  - **Into To Cloud Computing**
- **Runtime Terror:** It is a challenge where the participants will choose one language from the choices and Debug the code in order to make it run. The participant will need to be faster than other candidates.
  
- **WIKI GAME**
  - **Artistico:** There will be a short break where the students can express their talents. “Limitations live only in our minds. But with one’s imagination and creativity, possibilities become limitless.” Everyone will be provided with tier own Paints, Sheets, Brushes, and palettes.
  
- **Closing Ceremony**

**Day 3 - Online Global Hackathon Starts!**

**Day 4 - Online Global Hackathon ends!**

**Photos of this Event:**



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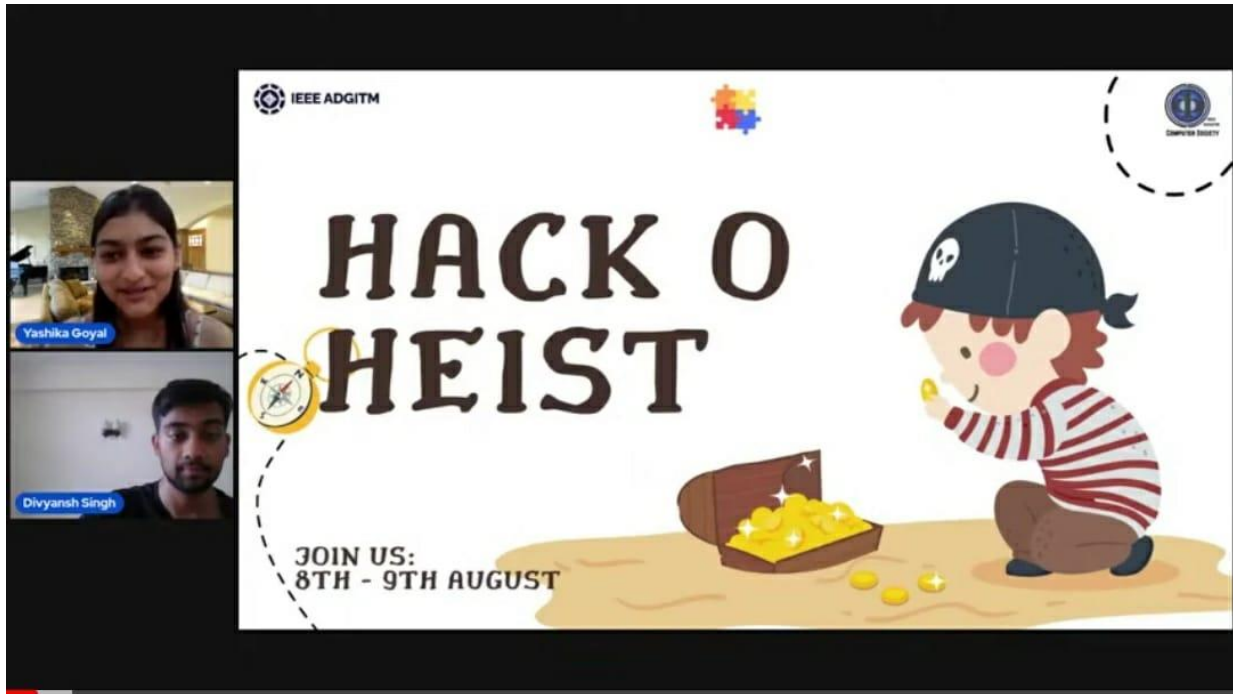
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# HACK O HEIST | OPENING CEREMONY 🤩 ✨

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15



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## **Webinar on AI and ML**

### **EVENT REPORT**

**Date:** 28<sup>th</sup> July, 2022

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

### **About this Event**

IEEE ADGITM organised an online webinar on AI & ML on July 28<sup>th</sup>, delivered by Ms. Eva Kaushik. AI & ML are helping remote teams to perform efficiently during the pandemic. According to research by ABI, within the realm of the Internet of Things, **Artificial Intelligence and Machine Learning services are estimated to grow about US\$3.6 billion by 2026, increasing at a CAGR of nearly 40%**. So, to help students realize the same, this event was conducted, and it was ultimately a huge success.

This interactive session will be delivered by Ms. Eva Kaushik. Our speaker for this event is the Co-Founder & Community Engagement - FiCord, Advisor - frontforumfocus, A Public Speaker, & The Ex-Chairperson at IEEE ADGITM.

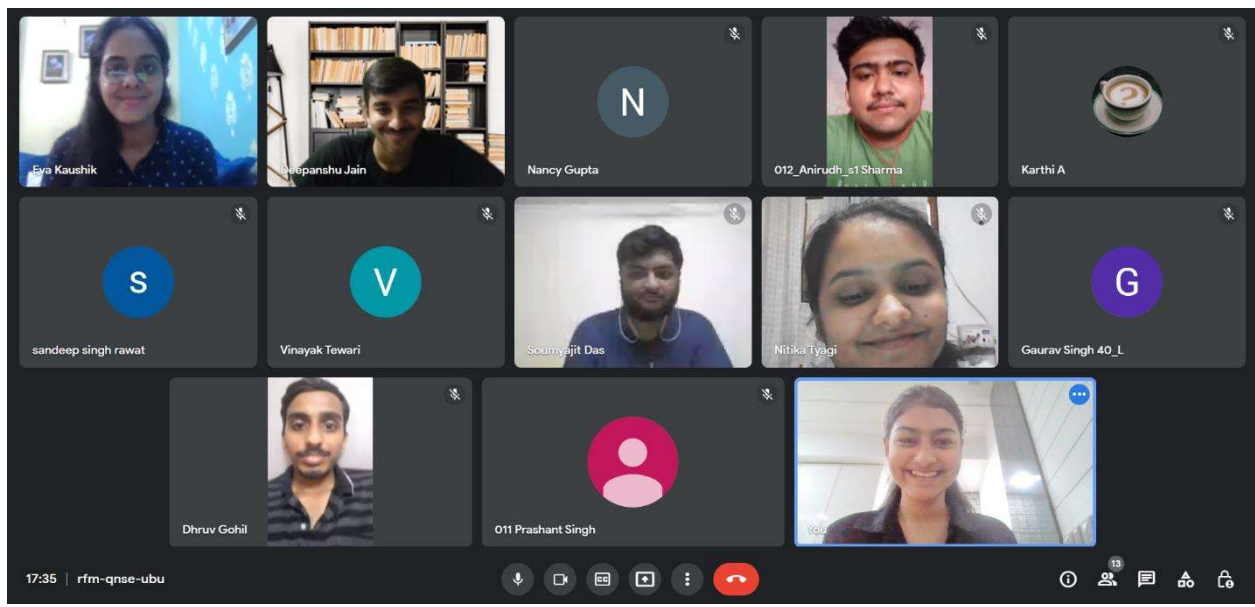
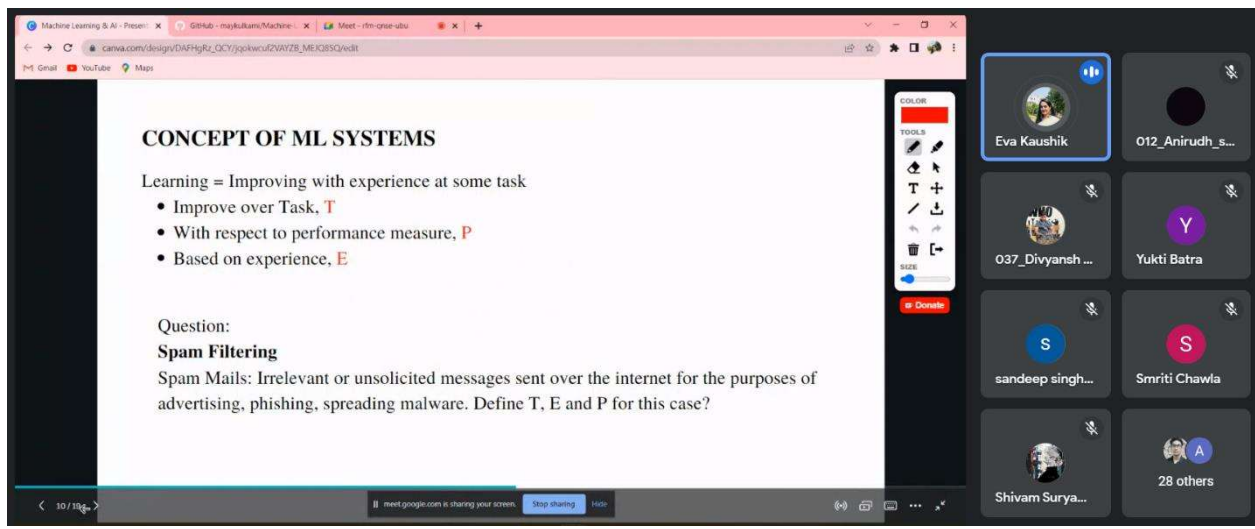
### **Objectives of the event:**

- To cultivate the interest of the students in the AI & ML domains
- To guide the students on how they can advance their careers by being in this demanding field
- To teach the attendees, some basics of the said domain
- To aware the students about the changes and demands in this rapidly growing field

All these objectives were hence realized during the event.



## Photos of the event:







## **Introduction to Cyber Security**

### **EVENT REPORT**

**Date:** 24<sup>th</sup> July, 2022

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

### **About this Event**

The Cyber Security Industry is rapidly growing every day. The World of Cyber Security is full of intriguing tid-bits that help us understand the dangers and how to protect ourselves from the Black Hats of the world. So, IEEE ADGITM conducted the most awaited webinar on Cyber Security so that it could guide the students on this topic and decide whether they want to pursue it or not.

It was an Online Webinar on the points that serve the students best about Cyber Security. Our Guest Speaker, MR. AJINKYA, CTO & Founder - Ditto Technologies told us about the significance of Cyber Security and how to secure our future through his expertise, Experience & Expressions.

### **Objectives of the event:**

- To cultivate the interest of the students in the cyber security domains
- To guide the students on how they can advance their careers by being in this demanding field
- To teach the attendees, some basics of cyber security.

All these objectives were hence realized during the event.



IEEE ADGITM

IEEE Student Branch  
Dr. Akhilesh Das Gupta Institute of Technology & Management

Poster of the event:

The poster is purple with white and yellow text. It features a circular portrait of Ajinkya Loharke, a man with dark hair wearing a blue and white checkered shirt. The background has faint white circuit-like patterns. The text is arranged as follows:

- Top left: IEEE ADGITM logo and text.
- Center: INTRODUCTION TO CYBER SECURITY (with 'CYBER SECURITY' in a glowing yellow box).
- Right side (vertical): DIGITAL BATTLE 22.
- Below portrait: with AJINKYA LOHARKE, CTO, Founder Ditto Securities (TEDx & Josh Talk Speaker).
- Bottom left: REGISTER NOW AT with a QR code.
- Bottom right: DATE - 24 JULY 2022, TIME - 4:00 PM.



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## **Roadmap To Tech Placements**

### **EVENT REPORT**

**Date:** 23<sup>rd</sup> July, 2022

**Time:** 4:00 PM onwards

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

#### **About this Session**

IEEE ADGITM rendered a stunning webinar on "Roadmap to Tech Placements" which was delivered by Mr. Nikunj Joshi who is currently an SDE at Amazon.

This was organized keeping in mind that Technology has helped make searching for jobs more convenient than ever. The growth of technology use in business has opened many job opportunities to those with the aptitude and willingness to learn how to use information technology. This session was packed with a lot of information and guidance. It helped the attendees and future aspiring engineers apply new ideas with greater confidence, and helped them to discover aid in taking the next steps towards their career.

#### **Activities Conducted during the event**

1. The attendees were told about how they can make their special place in the field of their choice.
2. All the participants were provided with basic information about what they can do to enhance their chances for scoring a good placement and advance their careers.
3. Special roadmap was provided
4. The speaker interacted with each attendee to know more about them and give them a personalized piece of advice.



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### Objectives:

The objectives of this session were the following:

1. To cultivate interest of members in the field of technology
2. To give a basic idea to the new students on how to start preparing for placements.
3. To give a basic idea how to use different special techniques to survive college years.

All of these objectives were realized during the webinar.

### Poster of the event:

The poster features a blue and white geometric pattern background. At the top left is the IEEE ADGITM logo. The main title 'ROADMAP FOR TECH PLACEMENTS' is displayed in white text on a blue rectangular background. Below the title, it says 'Online Webinar' and 'Register Now' with a QR code. The date and time '16:00 PM(IST) 23 JULY' are listed in bold. On the right, there is a circular portrait of Nikunj Joshi, a man with glasses and a beard wearing a red shirt. A purple circle overlaps the bottom left of his portrait, containing the text 'with Nikunj Joshi SDE, Amazon'.



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# COMPUTER VISION – FROM INSIGHT TO IMPLEMENTATION

## EVENT REPORT

**DATE:** 17<sup>th</sup> July, 2022

**TIME:** 4 PM

**VENUE:** Google Meet

**ORGANIZERS:** IEEE ADGITM

### **About the event**

IEEE PES ADGITM conducted a webinar on the topic COMPUTER VISION- FROM INSIGHT TO IMPLMENTATION on 17<sup>th</sup> July, 2022 for all students. It was organized keeping in mind the interests of students who seek to become acquainted with computer vision that included basic knowledge of neural networks and how data processing s done. It was delivered by our very special guest speaker, Mr. Vinay Kumar Verma.

This event kickstarted with the introduction of the guest speaker. He is Former-senior computer engineer-1 in Wobot.ai. Then the session followed with the importance of computer vision and neural networks and over the span of time, the session elucidated the significance of computer vision along with its applications. The event hence became a treasure trove of knowledge.

### **ACTIVITIES**

- Students were taught that the computer vision is a field of Artificial Intelligence (AI). Works on two essential technologies i.e., Machine learning (ML) and Convolutional Neural Network (CNN).



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- The knowledge of how and why computer vision and neural network work.
- Students were given real life applications to demonstrate how important computer vision is to endeavours in business, entertainment, transportation, healthcare and everyday life.
- Furthermore, students learnt how to build a project using this technology.

## **OBJECTIVES**

The objective of this webinar is as follows:

- To enhance interest in the field of computer vision and convolutional neural network.
- To give basic idea of how and why computer vision works using machine learning and convolutional neural network along with data processing.

All of these objectives were hence fulfilled during the webinar.



Meet - fbc-aohw-nvk

meet.google.com/fbc-aohw-nvk

Vinay Verma is presenting

Vinay Verma is presenting

### Moving to Little Complex One

inputs → output

We Saw Cat

60

4:55 PM | fbc-aohw-nvk

Participants: Vinay Verma, Aditya Gakhar, DEVEESH SHARMA, Yashika Goyal, 037\_Divansh Singh, 037\_Esshanbhu Jain, sumit kumar Singh, Wiem Khalifa, 33 others, You.

Vinay Verma is presenting

### Goals to Achieve

- Getting Introduced to Computer Vision, Neural Networks
- Finding how to create Heavy Models
- Discovering alternative approach to Heavy Models
- Collecting Data & Training your own Model
- Learning to Create Deployable Project & Deploying it
- How in Industry Computer Vision Products are Developed

At the end of session, you will be able to deploy your ideas

4

4:15 PM | fbc-aohw-nvk

Participants: Yashika Goyal, Sourbhajit Das, Vinay Verma, 037\_Esshanbhu Jain, Harsh, DEVEESH SHARMA, sumit kumar Singh, 016\_Amin Dutt Bhagat, 29 others, You.



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The screenshot shows a Google Meet interface with a presentation slide. The slide content includes:

- Logos for IEEE and IEEE ADGITM.
- Speaker: **Vinay Kumar Verma**, SDE Machine Learning @ Fynd, Former-Senior Computer Vision Engineer-1 At Wobot.ai, Public Speaker.
- Topic: **COMPUTER VISION**
- Subtitle: **FROM INSIGHT TO IMPLEMENTATION**
- Date: **17 JULY 2022**

The meeting interface shows a grid of participants on the right, including Vinay Verma, Harsh, Anshika Bansal, and others. The bottom of the screen displays the Windows taskbar with the time 4:08 PM and date 17-07-2022.

# Technorax V8.0

## EVENT REPORT

**Date:** 13<sup>th</sup> and 14<sup>th</sup> October, 2022

**Venue:** ADGITM

**Organizers:** IEEE ADGITM

### About this Event

One of the biggest celebrations of technology in the world is the celebration of the IEEE day. All the members of IEEE all over the world celebrate IEEE day to mark the great technological advancements that have been done so far and to encourage young minds to come forward with their ideas to change the world.

IEEE ADGITM celebrated IEEE DAY on 13<sup>th</sup> and 14<sup>th</sup> October 2022 as its annual flagship event **TECHNORAX V8.0** which is also the official technical fest of Dr. Akhilesh Das Gupta Institute of Technology and Management. The celebration was much more enthusiastic and grander from the previous ones with technical as well as non-technical events. Initiation of the new events like Robo race, LFR Race, Robo soccer, Robo tug o' war, Electro Geeks helped in encouraging students and professionals to take up engineering as a passion and not profession. This also helped the students to know more about IEEE as a community of enthusiastic and passionate engineers who work for the betterment of society.

These events were prepared keeping in mind the interests and technical exposure of the students and professionals. Colleges from all over India were invited to this technical festival. Participation was received from other student branches and colleges which helped in the growth of the whole IEEE community.



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Day one (October 13<sup>th</sup>, 2022) began with the inaugural ceremony of the celebration by lighting the lamp by our **Honourable CEO- Shri S.N. Garg, Respected Director sir- Dr. (Prof.) Sanjay Kumar, Director IQAC and Dean-Student Welfare-Respected Prof.(Dr.) Niranjan Bhattacharyya along with our Branch Counsellor Mr. Mohd. Saquib Faraz and Head of Departments of respective department.** Day one was scheduled to have a 12-Hour Hackathon, T-Hacks 5.0 where 16 teams from different colleges and student branches were invited. These 16 teams were selected among 1028 teams that registered for the event after peer rigorous evaluations that the organising team conducted.

At the closing ceremony, the top 2 winning teams of the hackathon were presented with cash awards along with winning certificates to mark their win and appreciate their ideas & effort.

A cake cutting ceremony at the auditorium marked the end of this energy-packed day one of the event. All the volunteers had lots of fun and celebrated IEEE day with exuberance and determination.

Day two (October 14<sup>th</sup>, 2022) consisted of many events including an exclusive house packed seminar was hosted by **Founder and CEO of GeeksForGeeks, Mr. Sandeep Jain**, which was a huge success and a milestone in the history of IEEE ADGITM and Technorax. Following this, there were many fun gaming stalls set up to beat the blues and provide some fun non-tech experience to our attendees. An open mic session took place in the auditorium where the students flaunted their talent and it served as a great interactive session with the attendees and the participants.

Then a career guidance session was conducted by **Coding Blocks, where our speaker, Mr. Monu Kumar** guided the students on how they can make their profile more competent and bag great placements. Events like, Robo wars, Robo Soccer, Robo Tug O' War, Tech-Expo were also conducted.

Thus, the event ended up not only being a platform for great minds to showcase their projects and technical advancements but also inspiring many others.



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TECHNORAX V5.0 ended with acknowledging the efforts of the whole team and the participants in the closing ceremony.







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***Mr. Sandeep Jain,  
Founder and CEO of GeeksForGeeks.***



***Mr. Monu Kumar  
Instructor and Product Engineer  
Coding Blocks***





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*From left to right Honourable CEO- Shri S.N. Garg,  
Respected Director ADGITM - Dr. (Prof.) Sanjay Kumar,  
Director IQAC and Dean-Student Welfare-Respected Prof.(Dr.) Niranjana Bhattacharyya*

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## **KHAYAAL**

### **EVENT REPORT**

**Date:** 29<sup>th</sup> September, 2022

**Venue:** S.S Jain Kanya Paathshala, Chandni Chowk

**Organizers:** IEEE ADGITM

#### **About this Session**

IEEE ADGITM organized an educational-cum-charity drive where we tried to put a smile on these cute faces by planning some fun activities and providing them with some donations that they generally need but can seldom afford. The event was a huge success, given the fact that we had the best team to make our plan work!

This event included a 2-day donation drive in the college campus on 27-28th of September. In this drive students from our college were asked to bring their old stationery and games for donation.

On 29th September we visited S.S Jain kanya Pathshala school in Chandini Chowk. This school has classes from 1st to 5th. The school had around 80 students present that day and we took 25 volunteers with us in our team. We were divided into group of 5 and were allotted one class. Various activities were conducted by volunteers in these classes. Classes 1st and 2nd made paper Planes and painted them whereas 3rd to 5th made Diwali cards. After that all of them were shown educational videos on laptops carried by the volunteers with them. We also played games with them such as to throw ball at a cup pyramid. Classes 3rd to 5th also did clay moulding, and we ended the day with hand impression activities.

All the resources and stationery needed in this event were provided by IEEE ADGITM and various donations that might be useful for the kids were made.





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**Photos of the event:**





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**IEEE Student Branch**  
**Dr. Akhilesh Das Gupta Institute of Technology & Management**





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**IEEE Student Branch**  
**Dr. Akhilesh Das Gupta Institute of Technology & Management**





## **Webinar on Internet of Things**

### **EVENT REPORT**

**Date:** 17<sup>th</sup> September, 2022

**Time:** 4:00 PM onwards

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

#### **About this Session**

We know that IoT is facing a high demand nowadays. Over the past few years, IoT has become one of the most important technologies of the 21st century which would shape our future world.

So, IEEE PES ADGITM organized an SIG Webinar on IoT for our IEEE geeks where we demystified the essentials of the Internet of Things. Attendees started from a beginner's level and soon realized why this one skill is so appealing to recruiters.

Our Guest speaker for the event was Mr. Shrey Sharma, Founder & CEO of SmarDEN (IoT Based Startup) | Professional IoT Trainer | IoT and Embedded Engineer. It was an interactive session that was organized keeping in mind that Technology has helped make searching for jobs more convenient than ever. The growth of technology use in business has opened many job opportunities to those with the aptitude and willingness to learn how to use information technology. This session was packed with a lot of information and guidance. It helped the attendees and future aspiring engineers apply new ideas with greater confidence, and helped them to discover aid in taking the next steps towards their career.

#### **Objectives:**

The objectives of this session were the following:

1. To cultivate interest of members in the field of Embedded Systems and IoT.
2. To give a basic idea to the new students on how to use Arduino UNO.
3. To give a basic idea how to use different special techniques in the field of IoT

All of these objectives were realized during the webinar.





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**Poster of the event:**







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## Hack O Heist

### EVENT REPORT

**Date:** 6<sup>th</sup>- 9<sup>th</sup> August, 2022

**Venue:** HYBRID MODE –

- Workshops and Mini Events At Dr. Akhilesh Das Gupta Institute Of Technology And Management, IEEE Makers Space open to all college students
- Hackathon At Global Level – Online

**Organizers:** IEEE ADGITM

**Estimated Number of Attendees:** 250+

**Event Website:** <https://ieeedgitm.com/hackoheist.html>

**Event Social Media:**

1. FACEBOOK: <https://www.facebook.com/ieeedgitm>
2. INSTAGRAM: <https://www.instagram.com/ieeedgitm/?hl=en>
3. TWITTER: <https://twitter.com/IeeeAdgitm>
4. DISCORD: <https://discord.gg/8GJjrZWp>

### About this Event

IEEE CS ADGITM presented its next Mega Event Hack O Heist. Hack-O-Heist was a 4-day long event that included featuring workshops, fun mini-events, challenges, and of course, food. Where all can Hack For Fun! This event was followed by a 48-hour Online Global Hackathon! This platform was intended to encourage innovation and creative thinking. These were going on through the day while caffeinated teams of exceptional student innovators and entrepreneurs collaborated on building technology that focuses on changing people's lives. It was an initiative to provide an open canvas to all where everyone is free to paint it however they want.



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We conducted this event as these little efforts will help us collectively achieve our mission to stimulate the learning of the students in our community and college. The vision of IEEE ADGITM is to be a torch-bearing academic group for students, illuminating the way and providing opportunities with a competitive edge for a successful future. We at IEEE ADGITM aim to provide a healthy and stable environment for the students in their respective fields. We will be able to build an even stronger community with the your support and it will be benefitting our community for the longer good as we are big believers in the importance of education and the role technical activities like these play. Educating people who will be shaping not only communities but industries to come warrants balancing institutional performance with the importance of experimentation, creativity & innovation. At hackathons, participants come up with and implement ideas for mobile apps, websites, robots, and other inventions. Hackathons are a fantastic opportunity to learn new skills, expand your network, get jobs, and have fun whether you're just starting out or have been programming for years. We consider hackathons to be an untapped tool for increasing diversity in tech development settings as technology continues to affect our future.

Below is our schedule for the event that was followed:

## Day 1 -

- **Opening Ceremony**
- **Workshops**
  - **Github**
  - **Building A Bot With Python**
  - **Data Science Track - 1**
  - **Resume Building:** Resume Building workshop will help the students who want to stand out from other applicants and build a stellar resume for the hiring process or internships.
  - **Intro To Web Development:** We will deep dive into HTML, CSS, and js for frontend and explore the js framework from scratch to pro. To bring this event more engaging we will mentor a hands-on project that will reinforce your learning from the event into use.
- **The Code Brewer:** It is a challenge where the participants will choose one language from the choices and solve beginner and intermediate-level problems faster than other candidates.
- **Live Music & Shayari:** There will be a short break where the students can express their talents.
- **Indoor Arena:** In order to teach students about three-dimensional spaces, the Rubik Cube was developed as a learning tool. But today it's one of the most well-known riddles in history! Gaming Competitions Like Rubiks Cube, Chess and Jenga Will be held.



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**Day 2 -**

- **Workshops**
  - **PCB Designing**
  - **Building Your Own Alexa**
  - **Data Science Track - 2**
  - **Tech Talk Based On Artificial Intelligence**
  - **Into To Cloud Computing**
- **Runtime Terror:** It is a challenge where the participants will choose one language from the choices and Debug the code in order to make it run. The participant will need to be faster than other candidates.
  
- **WIKI GAME**
  - **Artistico:** There will be a short break where the students can express their talents. “Limitations live only in our minds. But with one’s imagination and creativity, possibilities become limitless.” Everyone will be provided with tier own Paints, Sheets, Brushes, and palettes.
  
- **Closing Ceremony**

**Day 3 - Online Global Hackathon Starts!**

**Day 4 - Online Global Hackathon ends!**

**Photos of this Event:**



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**Dr. Akhilesh Das Gupta Institute of Technology & Management**





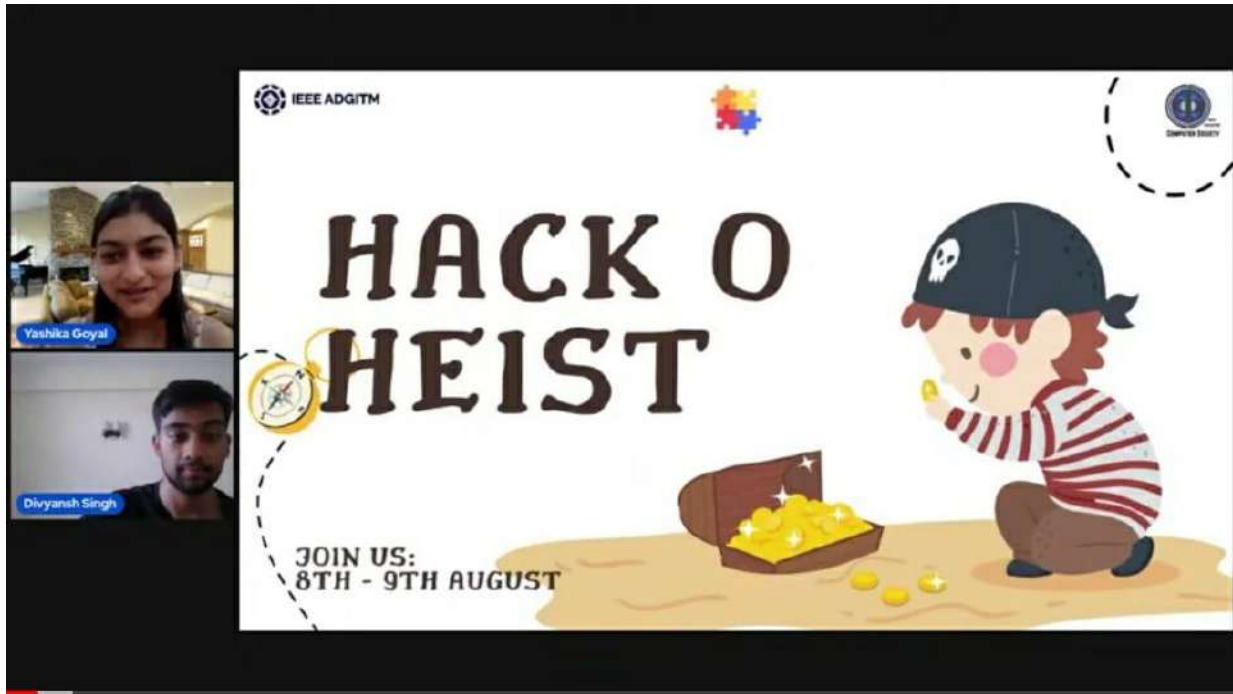
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# HACK O HEIST | OPENING CEREMONY 🥳 ✨



102 views · 1 mo ago

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15



Dislike



Share



Download



Save



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**SUBSCRIBE**



## **Webinar on AI and ML**

### **EVENT REPORT**

**Date:** 28<sup>th</sup> July, 2022

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

### **About this Event**

IEEE ADGITM organised an online webinar on AI & ML on July 28<sup>th</sup>, delivered by Ms. Eva Kaushik. AI & ML are helping remote teams to perform efficiently during the pandemic. According to research by ABI, within the realm of the Internet of Things, **Artificial Intelligence and Machine Learning services are estimated to grow about US\$3.6 billion by 2026, increasing at a CAGR of nearly 40%**. So, to help students realize the same, this event was conducted, and it was ultimately a huge success.

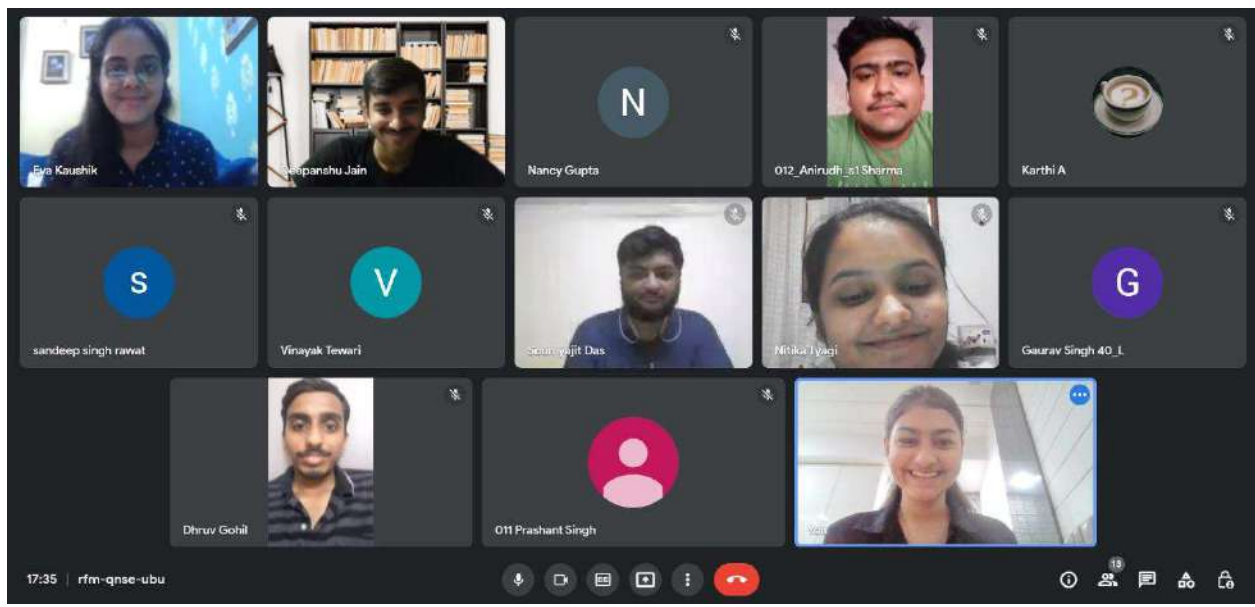
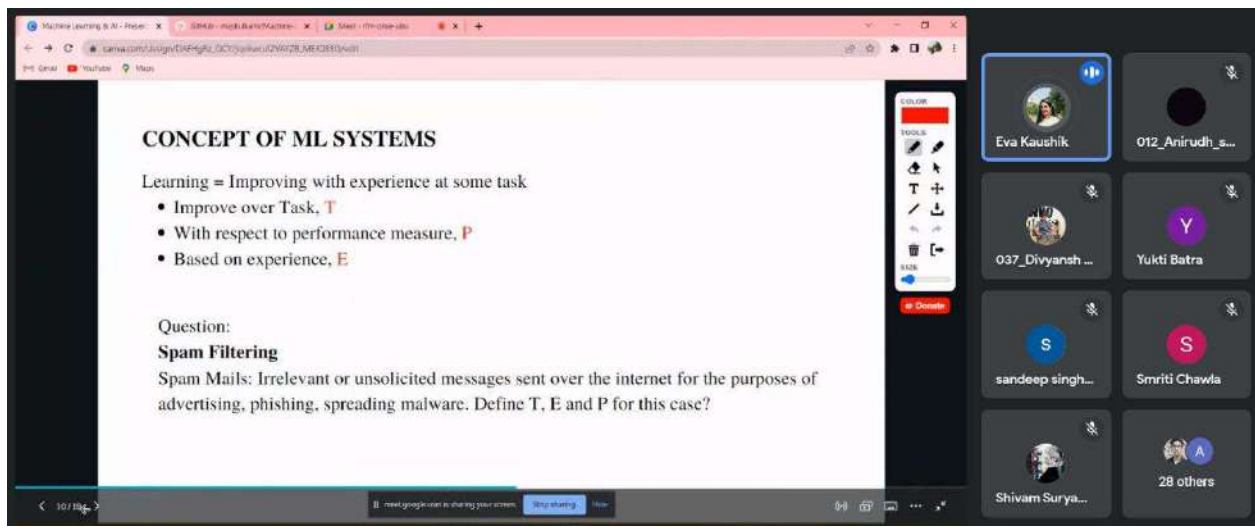
This interactive session will be delivered by Ms. Eva Kaushik. Our speaker for this event is the Co-Founder & Community Engagement - FiCord, Advisor - frontforumfocus, A Public Speaker, & The Ex-Chairperson at IEEE ADGITM.

### **Objectives of the event:**

- To cultivate the interest of the students in the AI & ML domains
- To guide the students on how they can advance their careers by being in this demanding field
- To teach the attendees, some basics of the said domain
- To aware the students about the changes and demands in this rapidly growing field

All these objectives were hence realized during the event.

## Photos of the event:





## **Introduction to Cyber Security**

### **EVENT REPORT**

**Date:** 24<sup>th</sup> July, 2022

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

### **About this Event**

The Cyber Security Industry is rapidly growing every day. The World of Cyber Security is full of intriguing tid-bits that help us understand the dangers and how to protect ourselves from the Black Hats of the world. So, IEEE ADGITM conducted the most awaited webinar on Cyber Security so that it could guide the students on this topic and decide whether they want to pursue it or not.

It was an Online Webinar on the points that serve the students best about Cyber Security. Our Guest Speaker, MR. AJINKYA, CTO & Founder - Ditto Technologies told us about the significance of Cyber Security and how to secure our future through his expertise, Experience & Expressions.

### **Objectives of the event:**

- To cultivate the interest of the students in the cyber security domains
- To guide the students on how they can advance their careers by being in this demanding field
- To teach the attendees, some basics of cyber security.

All these objectives were hence realized during the event.



IEEE ADGITM

IEEE Student Branch  
Dr. Akhilesh Das Gupta Institute of Technology & Management

Poster of the event:

The poster is purple with white and yellow text. It features a circular portrait of Ajinkya Loharke, a man with dark hair wearing a blue and white checkered shirt. The background has faint white circuit board patterns. The text is arranged as follows: 'IEEE ADGITM' in the top left; 'INTRODUCTION TO CYBER SECURITY' in large, glowing yellow letters in the center; 'with AJINKYA LOHARKE' and 'CTO, Founder Ditto Securities (TEDx & Josh Talk Speaker)' to the right of the portrait; 'REGISTER NOW AT' followed by a QR code in the bottom left; and 'DATE - 24 JULY 2022' and 'TIME - 4:00 PM' in the bottom right. On the far right, 'DIGITAL BATTLE 22' is written vertically in white.

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INTRODUCTION TO  
**CYBER SECURITY**

with  
**AJINKYA LOHARKE**  
CTO, Founder Ditto Securities  
(TEDx & Josh Talk Speaker)

REGISTER  
NOW AT



DATE - **24 JULY 2022**  
TIME - **4:00 PM**

**DIGITAL BATTLE 22**





## **Roadmap To Tech Placements**

### **EVENT REPORT**

**Date:** 23<sup>rd</sup> July, 2022

**Time:** 4:00 PM onwards

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

#### **About this Session**

IEEE ADGITM rendered a stunning webinar on "Roadmap to Tech Placements" which was delivered by Mr. Nikunj Joshi who is currently an SDE at Amazon.

This was organized keeping in mind that Technology has helped make searching for jobs more convenient than ever. The growth of technology use in business has opened many job opportunities to those with the aptitude and willingness to learn how to use information technology. This session was packed with a lot of information and guidance. It helped the attendees and future aspiring engineers apply new ideas with greater confidence, and helped them to discover aid in taking the next steps towards their career.

#### **Activities Conducted during the event**

1. The attendees were told about how they can make their special place in the field of their choice.
2. All the participants were provided with basic information about what they can do to enhance their chances for scoring a good placement and advance their careers.
3. Special roadmap was provided
4. The speaker interacted with each attendee to know more about them and give them a personalized piece of advice.



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### **Objectives:**

The objectives of this session were the following:

1. To cultivate interest of members in the field of technology
2. To give a basic idea to the new students on how to start preparing for placements.
3. To give a basic idea how to use different special techniques to survive college years.

All of these objectives were realized during the webinar.

### **Poster of the event:**

The poster features a white background with a faint geometric pattern of lines. At the top left is the IEEE ADGITM logo. The main title 'ROADMAP FOR TECH PLACEMENTS' is displayed in a large, bold, blue font, with 'ROADMAP FOR' and 'PLACEMENTS' in white on a blue rectangular background, and 'TECH' in blue. Below the title, the text 'Online Webinar' is written in blue, followed by 'Register Now' in blue. A QR code is positioned below this text. The date and time '16:00 PM(IST) 23 JULY' are shown in a large, bold, blue font. On the right side, there is a circular portrait of Nikunj Joshi, a man with glasses and a beard wearing a red shirt. A purple circle overlaps the bottom left of the portrait, containing the text 'with Nikunj Joshi SDE, Amazon' in white.



**IEEE ADGITM**

**IEEE Student Branch**  
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IEEE ADGITM

# COMPUTER VISION – FROM INSIGHT TO IMPLEMENTATION

## EVENT REPORT

**DATE:** 17<sup>th</sup> July, 2022

**TIME:** 4 PM

**VENUE:** Google Meet

**ORGANIZERS:** IEEE ADGITM

### **About the event**

IEEE PES ADGITM conducted a webinar on the topic COMPUTER VISION- FROM INSIGHT TO IMPLMENTATION on 17<sup>th</sup> July, 2022 for all students. It was organized keeping in mind the interests of students who seek to become acquainted with computer vision that included basic knowledge of neural networks and how data processing s done. It was delivered by our very special guest speaker, Mr. Vinay Kumar Verma.

This event kickstarted with the introduction of the guest speaker. He is Former-senior computer engineer-1 in Wobot.ai. Then the session followed with the importance of computer vision and neural networks and over the span of time, the session elucidated the significance of computer vision along with its applications. The event hence became a treasure trove of knowledge.

### **ACTIVITIES**

- Students were taught that the computer vision is a field of Artificial Intelligence (AI). Works on two essential technologies i.e., Machine learning (ML) and Convolutional Neural Network (CNN).



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- The knowledge of how and why computer vision and neural network work.
- Students were given real life applications to demonstrate how important computer vision is to endeavours in business, entertainment, transportation, healthcare and everyday life.
- Furthermore, students learnt how to build a project using this technology.

## **OBJECTIVES**

The objective of this webinar is as follows:

- To enhance interest in the field of computer vision and convolutional neural network.
- To give basic idea of how and why computer vision works using machine learning and convolutional neural network along with data processing.

All of these objectives were hence fulfilled during the webinar.



The screenshot shows a Google Meet window with a presentation slide. The slide title is "Moving to Little Complex One". It features a diagram of a neural network with three input nodes labeled "Tail", "Triangle Ears", and "Whiskers". These are connected to a hidden layer with four nodes labeled "T, E", "T, E, W", "E, W", and "E". The output node is labeled "We Saw Cat". Below the diagram are three small images of cats. The Meet interface shows a grid of participants on the right, including Vinay Verma, Aditya Gakhar, DEEPIK CHAKRA, Yashika Gupta, 007 Divyansh Singh, 007 Anshu Jain, sumit kumar Singh, and Wiom Kulkarni. The bottom status bar shows the time as 4:55 PM and the meeting ID fbc-achw-nvk.

The screenshot shows a Google Meet window with a presentation slide titled "Goals to Achieve". The slide lists the following objectives:

- Getting Introduced to Computer Vision, Neural Networks
- Finding how to create Heavy Models
- Discovering alternative approach to Heavy Models
- Collecting Data & Training your own Model
- Learning to Create Deployable Project & Deploying it
- How in Industry Computer Vision Products are Developed

Below the list, it states: "At the end of session, you will be able to deploy your ideas". The slide number "4" is visible in the bottom right corner. The Meet interface shows a grid of participants on the right, including Yashika Gupta, Anshu Jain Das, Vinay Verma, 007 Anshu Jain, Harsh, DEEPIK CHAKRA, sumit kumar Singh, and Oj Anand Dutt Bhagat. The bottom status bar shows the time as 4:15 PM and the meeting ID fbc-achw-nvk.



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A screenshot of a Google Meet session. The main slide is titled "COMPUTER VISION" and "FROM INSIGHT TO IMPLEMENTATION" on "17 JULY 2022". The speaker is Vinay Kumar Verma, SDE Machine Learning @ Fynd, Former Senior Computer Vision Engineer-1 at Webot.ai, and Public Speaker. The slide also features the IEEE and IEEE ADGITM logos. On the right side of the screen, there is a grid of participant video thumbnails. The bottom of the screen shows the Google Meet interface with icons for mute, video, chat, and call, along with the time 4:08 PM and the meeting ID fbc-aohw-nvk. The Windows taskbar is visible at the very bottom.



## **Breaking into Data Careers**

### **EVENT REPORT**

**Date:** 28<sup>th</sup> May, 2022

**Time:** 4:00 PM

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

#### **About this Session**

It's so easy for us to get caught up in negative patterns, versus seeing what positive change you can make. Especially for women and minorities, we need to learn to see challenges as stepping stones instead of hurdles. The world of tech is known for being extremely male-dominated, with women in the STEM industries often experiencing sexism, inequalities, feelings of inadequacy, or impostor syndrome. Despite the hardships that come from being a minority in the field, there are incredible women making their mark on the tech industries.

Keeping this in mind, IEEE ADGITM conducted session on how women in STEM can make their special place in data careers. It was delivered by Deeksha Anand (Corporate Strategy & BI Manager @ ION | Founder, OneStopData| Educator | Trained Coach | Mentor | Women in Data). It was a power-packed session where we talked about how women in data face hardships in their field and how they can face them.

#### **Activities Conducted during the event**

1. The attendees were told about how they can make their special place in the field of machine learning or any tech industry.
2. The special emphasis was laid on how women can have an upper hand among the rest of the individuals.
3. All the participants were provided with basic information about what they can do

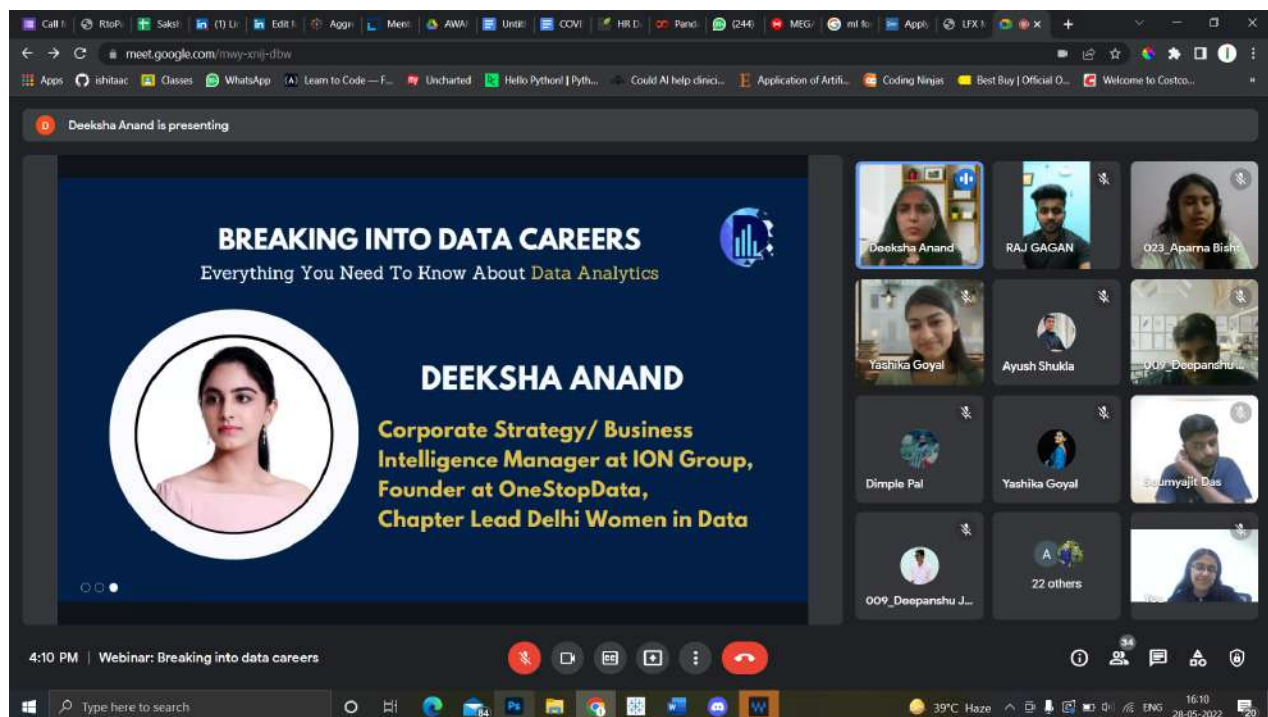
to enhance their chances for scoring a good placement and advance their careers. 4. Special roadmap was provided

### Objectives:

The objectives of this SIG were the following:

1. To cultivate interest of members in the field of machine learning.
2. To give a basic idea to the new students on how to start preparing for placements.
3. To give a basic idea how to use different special techniques in the field of STEM for women, All of these objectives were realized during the webinar.

### Pictures from the event:



meet.google.com/rmy-xnj-dbw

SAHIL SURYAVANSHI

Deeksha Anand

009\_Deepanshu Jain

023\_Aparna Bhat

Nitika Tyagi

Sneha Chandra

089\_Paarth Prasad

Yashika Goyal

022 Sameer Singh

Soumyajit Das

Vinit Sangoi

Trisha Bhatia

Jatin kurra

RAJ GAGAN

8 others

5:18 PM | Webinar: Breaking into data careers

Very hot outside

17:18  
28-05-2022





## **Idea to Product: A Research Pathway for Students**

### **EVENT REPORT**

**Date:** 9<sup>th</sup> May, 2022

**Time:** 2:00 PM onwards

**Venue:** Auditorium, ADGITM

**Organizers:** IEEE ADGITM

#### **About this Session**

IEEE ADGITM organized a session on the importance of research pathway and project based learning delivered by Mr. Ramneek Kalra, this session was packed with a lot of information and guidance. It was an event where our guest speaker spoke about his journey with IEEE and motivated the attendees by sharing his life experiences and how he got to where he is today.

Our guest speaker taught the students a lot about how writing and concluding in research papers anything related to research is crucial in today's times, even a little bit more than internships. He correlated the events from his past college experiences to the days that college students experience in today's post-covid world and guided everyone on what's best for everyone. It was a very fruitful session for every attendee overall.

#### **Activities Conducted during the event**

1. The attendees were told about how they can make their special place in the field of their choice.
2. The special emphasis was laid on why and how research papers are a very important part of any student's college life.
3. All the participants were provided with basic information about what they can do to enhance their chances for scoring a good placement and advance their careers.
4. Special roadmap was provided
5. The speaker interacted with each attendee to know more about them and give them a personalized piece of advice.



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### **Objectives:**

The objectives of this session were the following:

1. To cultivate interest of members in the field of research and project based learning.
  2. To give a basic idea to the new students on how to start preparing for placements.
  3. To give a basic idea how to use different special techniques to survive college years.
- All of these objectives were realized during the webinar.

### **Images from the event:**



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**SATELLITE : DESIGN , CONFIGURATION , ASSEMBLY , AND**  
**TESTING**  
**EVENT REPORT**

**DATE:** 7<sup>th</sup> MAY, 2022

**TIME:** 5 PM

**VENUE:** CISCO WEBEX

**ORGANIZERS:** IEEE PES ADGITM

**PRESENTER:** SOUMYAJIT DAS, PES CHAIRPERSON, IEEE ADGITM

### **About the event**

IEEE PES ADGITM conducted a webinar on the topic SATELLITE: DESIGN, CONFIGURATION, ASSEMBLY AND TESTING on 7<sup>th</sup> MAY 2022 for all students. It was organized keeping in mind the interests of students who wanted to dive deeper into the study of satellites. It was delivered by our very special guest speaker, Mr. Puneet Mishra.

This event kickstarted with the basic introduction of the importance of satellites and over the span of time, the session catered students with the knowledge of its design, configuration and assembly. The event hence was a huge success.

### **ACTIVITIES**

- Students were taught about the knowledge required prior to the study of satellites.
- The knowledge of how and why the satellites work was given.
- Students were taught about the benefits of the study of satellites.





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- Furthermore, students learnt about configuration and assembly process.

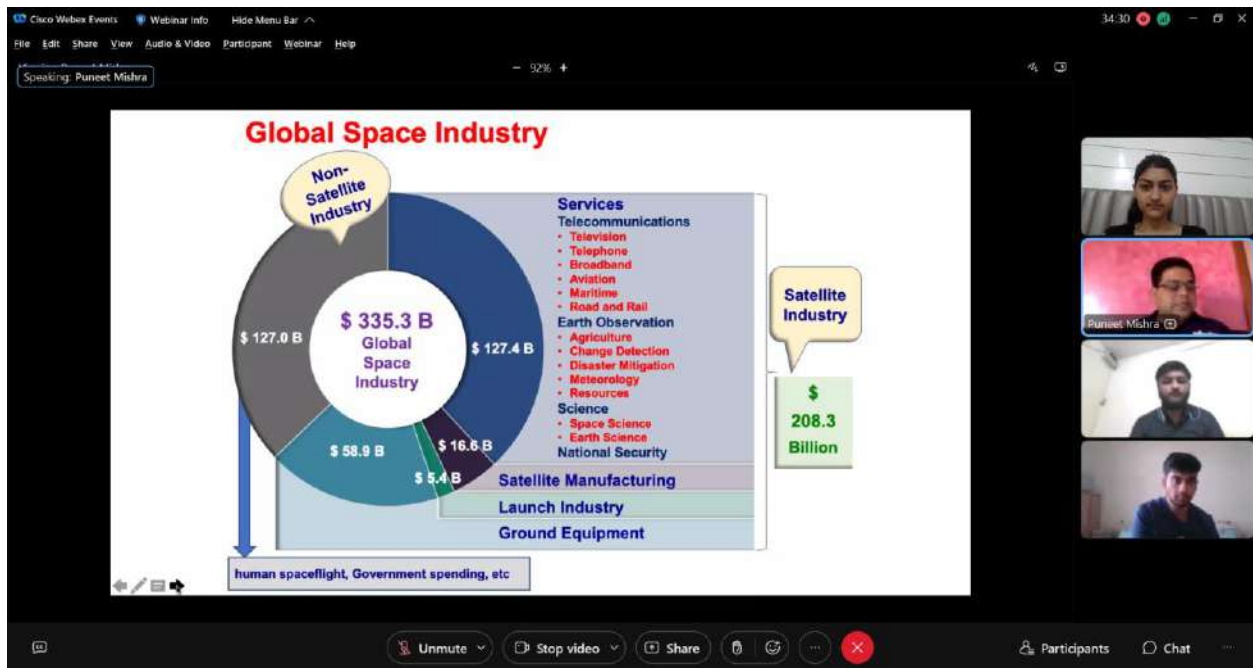
## OBJECTIVES

The objective of this webinar is as follows:

- To cultivate interest in the study of satellites.
- To give basic idea of how and why satellites work.

All of these objectives were hence fulfilled during the webinar.

## Photos of the Event





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The screenshot shows a Zoom webinar interface. The main content is a presentation slide titled "Global Space Industry" with a total value of \$335.3 Billion. The slide is divided into "Non-Satellite Industry" (\$127.0 B) and "Satellite Industry" (\$208.3 Billion). The "Satellite Industry" is further broken down into: Services (\$127.4 B), Earth Observation (\$58.8 B), Satellite Manufacturing (\$16.6 B), Launch Industry (\$8.4 B), and Ground Equipment. A callout box for "Satellite Industry" specifies a value of \$208.3 Billion. The presentation also lists various services and science categories. At the bottom of the slide, it notes "human spaceflight, Government spending, etc".

Category	Value
Global Space Industry	\$335.3 B
Non-Satellite Industry	\$127.0 B
Satellite Industry	\$208.3 Billion
Services	\$127.4 B
Earth Observation	\$58.8 B
Satellite Manufacturing	\$16.6 B
Launch Industry	\$8.4 B
Ground Equipment	-

The interface also shows a grid of 10 participants, a list of 53 participants on the right, and a bottom control bar with options like Unmute, Stop video, Share, and Participants.



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**INSTILL: An Endeavor To Foster A Vibrant Tomorrow**  
**Event Report**

**Date:** 22nd April 2022  
**Event :** **Plantation Drive**  
**Time :** 11:00 A.M Onwards  
**Venue:** college ground  
**Contest Time:** 2:15 P.M Onwards  
**Contest Venue:** IEEE Maker's Space  
**Organizers :** IEEE ADGITM

**About the plantation drive :**

IEEE ADGITM conducted a plantation drive to celebrate Earth Day. It took place in the college ground at 11:00 A.M onwards. It was attended by our honourable director sir Mr. Sanjay Kumar and CEO sir along with all IEEE members. In this drive we planted a total of 22 saplings with the help of college gardeners. In the end our honourable director and CEO sir also gave us words of wisdom to embrace. This plantation drive was a huge success and thoroughly enjoyed by everyone.

**About the contest :**

Contest took place after the plantation drive in the IEEE maker's space. In this contest the participants were asked to present their innovative ideas which can help our planet earth using technology, in teams or solo. In total there were 5 teams who showcased their ideas using elaborative presentations out of which the top three teams were chosen for the next round by our judges. In the next round the selected teams brought their ideas to life and presented their projects, out of which PARTH BANSAL and KARAN MADAN won the competition who showcased a forest fire alert system. Overall, the entire event was a great success.

**OBJECTIVES:**

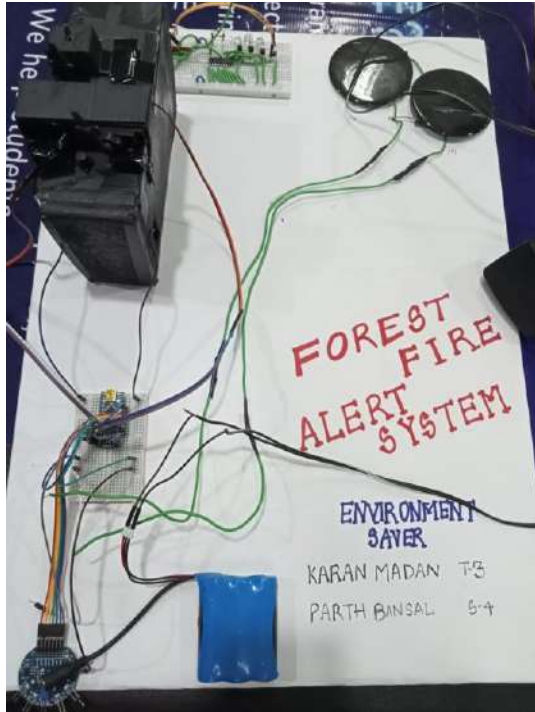
**The objectives of the earth day events were:**

1. To give a contribution in saving our planet earth.
2. To inculcate project thinking skills.
3. To develop confidence in students to showcase their projects.



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## THE WINNING PROJECT



## Instill Poster





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**Photos from the Event**







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## **SIG: Embedded Systems**

### **EVENT REPORT**

**Date:** 18<sup>th</sup> April, 2022

**Time:** 2:30 PM – 5:30 PM

**Venue:** IEEE Maker's Space

**Organizers:** IEEE ADGITM

**Presenter:** Soumyajit Das, PES chairperson, IEEE ADGITM

#### **About this Session**

IEEE PES ADGITM conducted a SIG (Special Interests Group) on Introduction to Embedded Systems Design on 18th April 2022 for our IEEE students. It was organized keeping in mind the sudden demand and importance of the Embedded systems in today's world. Many students who wanted to develop their technical skills attended the event.

This event kickstarted from the very basics of ESD with no prerequisites, the only Prerequisite was that you are passionate about your future and wanted to invest time in gaining information on new technology.

The event was a huge success. The main focus for the SIG was to give hands on experience to the students. The SIG started with a brief introduction of what is an Embedded system and where it is used in our daily life followed by basic knowledge and the difference between microcontrollers, microprocessors, and desktop computers.

The SIG was not purely theoretical, it was a mixture of both theories along with some cool practical demos and it was a fully interactive session. Projects like blinking of LED, calculating distance using ultrasonic sensor were covered in the event.

#### **Activities Conducted During the Event:**

- Different types of Arduino Development Boards were introduced with the main focus on Arduino Uno which is the most in-demand Development board for making projects.
- Students were taught about the UNO's input block, output block, power supply block, communication protocols, etc.



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- Furthermore, Students learnt Arduino programming in an easy and fun way by writing the code and then making their connections. They were taught about the basic coding structure of Arduino IDE and internal connectors of breadboard and types of jumper wires.

## **Objectives**

The objectives of this SIG were the following:

1. To cultivate interest of members in the field of Embedded Systems.
2. To give a basic idea to the new students on how to use Arduino UNO.
3. To give a basic idea how to use different special techniques in the field of Embedded Systems.

All of these objectives were realized during the SIG.

**Number of Attendees: 30**



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**Pictures from the event:**

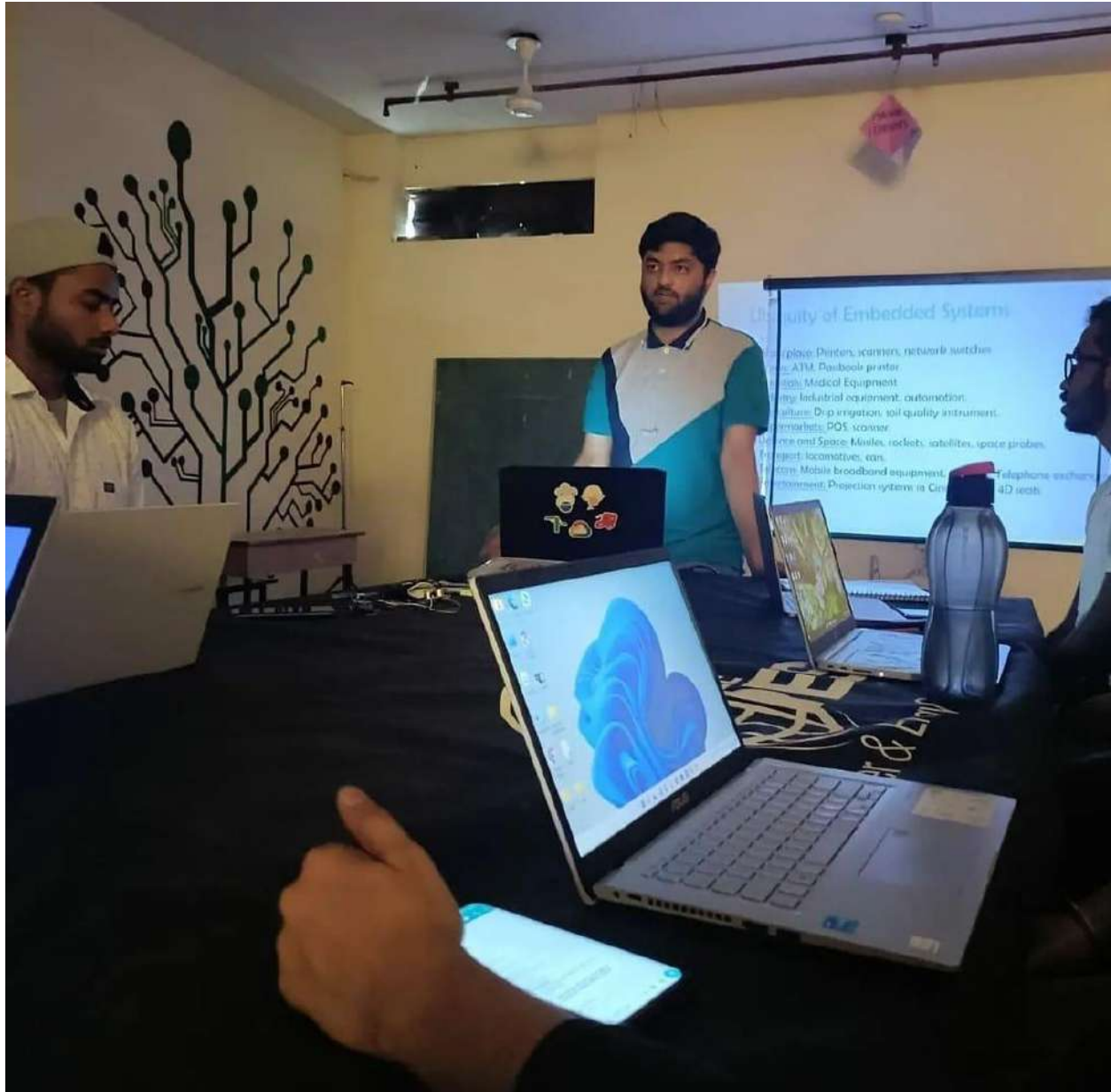






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## **Research Paper Awareness Session**

### **EVENT REPORT**

**Date:** 11<sup>th</sup> April, 2022

**Venue:** IEEE MAKER'S SPACE and Google Meet

**Organizers:** IEEE ADGITM

### **About this Event**

IEEE ADGITM conducted a 'Research Paper Awareness' program in which they talked about the importance of research and dissemination of the findings for the advancement of science and technology. The IEEE Region 10 Student Activities Committee recognizes the importance of research. Researching, writing, and presenting a paper provides students with invaluable early experience in communicating ideas related to their professional fields. The contest offers IEEE Student members an opportunity to exercise and improve both written and verbal communication skills.

IEEE ADGITM informed the attendees everything about this award and also all about all the awards, scholarships, and volunteering opportunities they could apply for. We covered How, why, what and all the questions the students had in their minds

The session took place in both Online and Offline mode to aware all the IEEE Members about the Upcoming Contest by IEEE R10 SAC and also about all the other upcoming awards, scholarships, and volunteering opportunities that they can apply for!

### **Objectives of the event:**

- To cultivate the interest of the students in the research domains.



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- To guide the students on how they can advance their careers by writing and disseminating the findings of their research analogies.
- To show the right path on how and which awards and scholarships they can apply for, being a part of IEEE.
- How research papers are written and published.

All these objectives were hence realized during the event.

### **Photos of the event:**







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## **WIEkas 2.0: Empowering the Women Around Us** **2022 Event Report**

**Organized By:** WIE-IEEE ADGITM

**Date:** 8<sup>th</sup> March 2022

**Time:** 11 A.M (IST)

**Collaboration With:** NSS ADGITM

**Interaction with:** Underprivileged Women and Children

### **About the Event:**

On the 8th of March 2022, WIE-IEEE ADGITM collaborated with NSS ADGITM to celebrate International Women's Day.

We aimed to make the women aware of the importance of menstrual hygiene. There were more than 80 attendees including women, children and volunteers. The event was held in two sessions- First, we interacted with women, and they shared their experiences with us. Furthermore, they were provided with care packages that contained sanitary pads, disposable bags for sanitary pads, masks and hair oil with a chocolate each. We played games with women to get them more comfortable and to spend time with them.

Later, we conducted activities for children in small groups including dance, poem recitation, interactive knowledgeable videos, and more. Every child was rewarded with a packet of stationery items and chocolates in the end.

The event was concluded with a cake-cutting ceremony and the women and children were boosted with positivity and knowledge. They were enthusiastic and interactive throughout the event and we hope that it was as amazing an experience for them as it was for us.

**Poster of the event:**



**Activities conducted during the event:**

1. Various games and activities were conducted by WIE, engaging the women, playfully educating them while simultaneously keeping up the enthusiasm.
2. Our members talked to them and made them aware of menstrual hygiene. They started by introducing our society, the role of WIE in empowering and encouraging women in the field of tech and engineering.
3. We also interacted with children and showed them educational and fun videos.

4. We then concluded with a dance and game session where our volunteers and all the children and women danced to the beats and had an exhilarating ending to the event followed by group photos and videos.
5. We then ended an amazing event by distributing care packages to women and refreshments to children and our volunteers.

**Total attendees count:**

1. Volunteers: 23
2. Women: 30
3. Children: 30

**Pictures from the event:**



*Pic 1: Volunteers distributing care packages to women (Session 1)*





*Pic 2: Volunteers distributing care packages to women (Session 1)*



*Pic 3: Group photo of volunteers with women and children (Session 2)*



*Pic 4: Volunteers given care packages (Session 2)*

**ATTENDANCE SHEET OF VOLUNTEERS:**

SNo.	Name	Email	Branch
1	Nitika	nitikatyagi273@gmail.com	CSE
2	Deepanshu Jain	djjain844@ieee.org	CSE
3	Yashika Goyal	yashii.2401@gmail.com	IT
4	Divyansh Singh	singhdivyansh0110@gmail.com	IT
5	Pratham Taneja	pratham2014taneja@gmail.com	ECE
6	Ishita Choudhary	ishitachoudhary66@gmail.com	CSE
7	Vanshika	vanshikaasinha08@gmail.com	CSE
8	Lakshay Singla	lakshay.singla.04@gmail.com	CSE
9	Saksham garg	Sakshamgarg2900@gmail.com	ECE
10	Garv Kalia	garvg1710@gmail.com	IT
11	Shivam Gaur	shivamgaur529@gmail.com	ECE





## **IEEE Student Branch**

### **Dr. Akhilesh Das Gupta Institute Of Technology And Management**

12	Paarth Prasad	pdkn.prasad@gmail.com	CSE
13	Rahul Kumar	rahulkumar813070@gmail.com	CSE
14	Krishan Kant Choudhary	krishanchoudhary507@gmail.com	ECE
15	Nehal Garg	nehalgarg2904@gmail.com	CSE
16	Riddhima Garg	riddhimagarg922@gmail.com	IT
17	Preetjot Kaur	preet29kochar@gamil.com	CSE
18	Dhvani Juneja	dhvanijuneja2003@gmail.com	CSE
19	Kritika Sharma	kritikaks0925@gmail.com	CSE
20	Utkarsh Jain	utkarsh11247@gmail.com	CSE
21	Manmeet Singh	manmeetmannie@gmail.com	CSE
22	Anshika Bansal	anshikabansal2416@gmail.com	ECE
23	Tushar Rajora	tusharrajora72@gmail.com	CSE



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## **IEEE ADGITM: MEMBERSHIP DRIVE 2022 Event Report**

**Organized By:** IEEE ADGITM

**Date:** 4<sup>th</sup> & 5<sup>th</sup> March 2022

**Time:** 2:30 PM

**Interaction with:** New Students and Freshers

### **About the Event:**

On 4th and 5th March, IEEE ADGITM conducted a Membership Drive to recruit new students and talent; give some new members a chance to discover their newfound interest in technology and different particular domains.

The event was conducted on two consecutive days in two different modes: Offline and Online. We aimed to make students understand the importance of IEEE in their technical careers and how it can benefit them in the long run. We had around 175 students who attended the event in both online and offline modes.

The offline event was conducted at the IEEE Maker's space, ADGITM. The event was managed by a set of volunteers. There were around 10 topics that were covered by different subject experts who are a part of IEEE ADGITM presently. Each prospect who was interested in a specific domain was guided to their particular subject expert by the volunteers.

The online event took place on IEEE ADGITM's official Discord server in a similar way.

The event ran smoothly and was concluded with many attendees joining IEEE ADGITM



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**Management**

Poster of the event:

The poster is for an IEEE ADGITM Membership Drive. It features a dark blue background with white and light blue text. At the top left, there are logos for IEEE ADGITM, IEEE Computer Society, IEEE PES Day 2021, and IEEE Systems & Department. The main title "IEEE ADGITM MEMBERSHIP DRIVE" is prominently displayed in large, bold, white letters. Below the title, a blue rounded rectangle contains the text "RECRUITMENT & COUNSELLING SESSION". The date and time are listed as "DATE : 4-5 MARCH 2022" and "TIME : 2:30 PM". On the right side, there is an illustration of a woman with blue hair, wearing a green dress and a headset, sitting on a pink circular platform and working on a laptop. A green mug is next to her. The background also features a large grey circle and a blue wavy pattern on the right side.

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**MEMBERSHIP**  
**DRIVE**

**RECRUITMENT &  
COUNSELLING SESSION**

**DATE :**  
**4-5 MARCH 2022**

**TIME :**  
**2:30 PM**





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**Activities conducted during the event:**

- Doubt clearing and counseling session across various domain was conducted by the subject mentors
- The attendees were guided on how to join the organization and what benefits it would award them
- Goodies and flyers were provided to all the participants towards the end of the event
- Certificates to all the volunteers and the attendees were provided on the successful completion of the event

**Total attendees count:**

1. Volunteers: 3
2. Mentors: 16
3. Attendees: 175

**Pictures from the event:**



# IEEE Student Branch Akhilesh Das Gupta Institute Of Technology And Management

The screenshot shows a Discord server interface for the IEEE Student Branch at Akhilesh Das Gupta Institute Of Technology And Management. The server name is "IEEE Membership Drive ...". The channel is "# rules".

**Rules:**

1. You shall join discord server according to the time slot.
2. Join the General Waiting Room of the official discord server.
3. You will be asked the domain of your interest and we will let you join the waiting room for the same.
4. We will then let you join the voice channel according to the availability of the mentors.
5. Everyone must go through their slot timings thoroughly.
6. Make sure you join as per your slot timings only.
7. Once your counselling session ends, relax for some time and join the waiting room of another domain of your choice.
8. Use of any hate speech and abusive language is NOT permitted.
9. Everyone must maintain decorum.

**Mentorship Schedule:**

S.NO	NAME	SLOT	TIME
1	Anshika Bansal	1	2:05:00
2	Pratham Bisht	1	2:05:00
3	Pratyush Kumar	1	2:05:00
4	Yuvraj Khanna	1	2:05:00
5	Adityak	1	2:05:00
6	Abdullah	1	2:05:00
7	Deepanshu Jain	1	2:05:00
8	Pratham Bisht	1	2:05:00
9	Pratyush Kumar	1	2:05:00
10	Yuvraj Khanna	1	2:05:00
11	Adityak	1	2:05:00
12	Abdullah	1	2:05:00

**Server Information:**

- MENTORS** — 1: Anshika Bansal
- ONLINE** — 4: Adityak, Pratham Bisht, Pratyush Kumar, Yuvraj Khanna
- OFFLINE** — 125: IF today, \_Adityasingh004\_, \_himanshu\_d, \_Jrahid5911\_, Abdullah





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## **TECHNORAX V7.0** **EVENT REPORT**

**Dated:** 17<sup>th</sup> and 18<sup>th</sup> of October 2021

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

**Chief Guest:** Prof. Rachana Garg

**Time:** 11:00 am (IST)

### **HIGHLIGHTS:**

On the auspicious occasion of IEEE Day, the IEEE student branch of ADGITM organized their biggest flagship event Technorax V7.0 on the 17th and 18th of October 2021. The theme of the event this year was “Leveraging Technology for a Better Tomorrow”.

The event consisted of a 24-hours virtual Hackathon (T-HACKS 4.0) and a product pitching competition (SELL-IT-OFF). Technorax was a two-day package full of opportunities. The motive of this event was to expose students to the current trends in the technical and professional fields. This event also helped in encouraging students and professionals to take up engineering as a passion and not just as a profession. The registrations in events were done through our official website for the event: <https://technoraxv-7.tech/>.

### **Inaugural Ceremony**

Day one (October 16th, 2020) began with the inaugural ceremony of the event by our Hon'ble Director, Prof. (Dr.) Sanjay Kumar, our Branch Counselor, Dr. Parthish Kumar Paul, and the chief guest for the event, Prof. Rachana Garg. Prof. Rachana Garg is the chairperson of the IEEE Delhi Section and Student Activities Committee. All the guests graced the entire team and participants with some kind and inspiring words.

### **T-Hacks 4.0**

On the 16th of October 2021 at 11:00 am we raised curtains on our 1st event "T-HACKS" which was a 24-Hours Hackathon. This year, it was held virtually on the Devfolio platform. We created a discord channel to ease communication between participants, organizers, and mentors. We had a mentoring round which started at 3:00 pm where mentors, Mr. Harsh Bardhan Mishra, Mr. Yajas Sardana, and Mr. Shakul Mittal guided the participants in the right direction, assisted with their queries, and encouraged



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them. All the teams were required to submit their projects on the Devfolio platform by 11:00 AM on the 17th of October 2021.

After this, the top 10 teams were shortlisted by the mentors. These teams then presented their project to a panel of judges in the final round of T-HACKS 4.0. This round was conducted on Google Meet. The Judges for the competition were:

Mr. Arsh Goyal- Senior Software Engineer at Samsung

Mr. Kartik Sharma- Research and Development Engineer at FINEOS

Mr. Mohit Yadav- Founder of Crow Security.

Based on the Innovation, Design, Technology, Completion and Future Scope of the project. Each team had tremendous potential and showed remarkable skills.

### **Total number of Registrations: 256**

The results of the competition were as follows:

Winner- Team WApreset2 (Project Playfit),

First Runner up- Team UnicornDev (Project Unicorn teach),

Second Runner up- Team RgR(Project Bridge).

### **SELL-IT-OFF**

Sell-It-Off was an entrepreneurship event held under Technorax v7.0 by IEEE ADGITM. It was a product-pitching competition where participants were asked to bring a unique product idea. The top 10 teams were shortlisted based on their idea. These teams were then required to pitch their product and try to sell it to a panel of judges in the final round of SELL-IT-OFF.

The final round was held on the 16th of October at 2 PM on Google meet. Participants were allowed to use presentations to pitch their product idea. The judges for the competition were:

👤 Dr. Diksha- Chief Strategy and Innovations Officer at Sirona Hygiene.

👤 Miss. Ankita Gulati- Founder at TouchVision Tech

### **Total number of Teams that registered: 20**

The results of the competition were as follows:

Winner- TEAM AJA

Runner up- Team VIRUS INVERTER

### **CLOSING CEREMONY**

On the 17th of October 2021, the closing ceremony was held at 6 PM to conclude the event. The participants were addressed by our Honorable Director, Prof. (Dr.) Sanjay Kumar, and our Branch Counselor, Dr. Parthish Kumar Paul. This was also followed by some inspiring words from the judges.





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After this, the winners and runners-up of both competitions were announced. Finally, the event was successfully wrapped-up by appreciating all the participants for their tireless participation and thanking judges and mentors for their immense support.

TECHNORAX V7.0 ended with acknowledging the efforts of the whole team.

## PICTURES FROM THE EVENT



Fig. 1. Opening Ceremony in the presence of Hon'ble Director, Prof. (Dr.) Sanjay Kumar, Branch Counsellor, Dr. Parthish Kumar Paul, and the chief guest for the event, Prof. Rachana Garg. Prof. Rachana Garg.



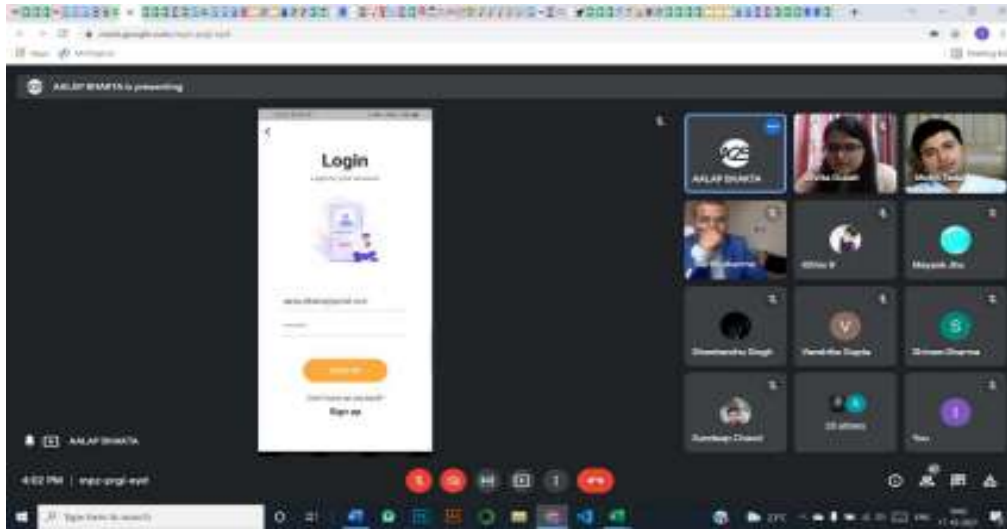


Fig. 2. T-HACKS 4.0 Final Round.

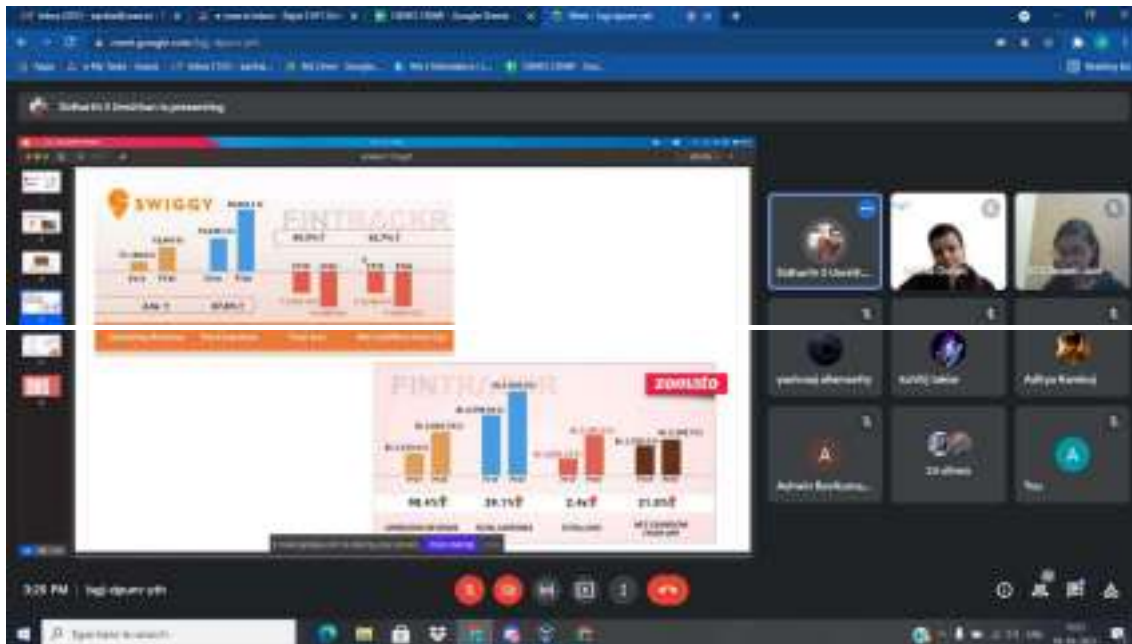


Fig. 3. SELL-IT-OFF Final Round.

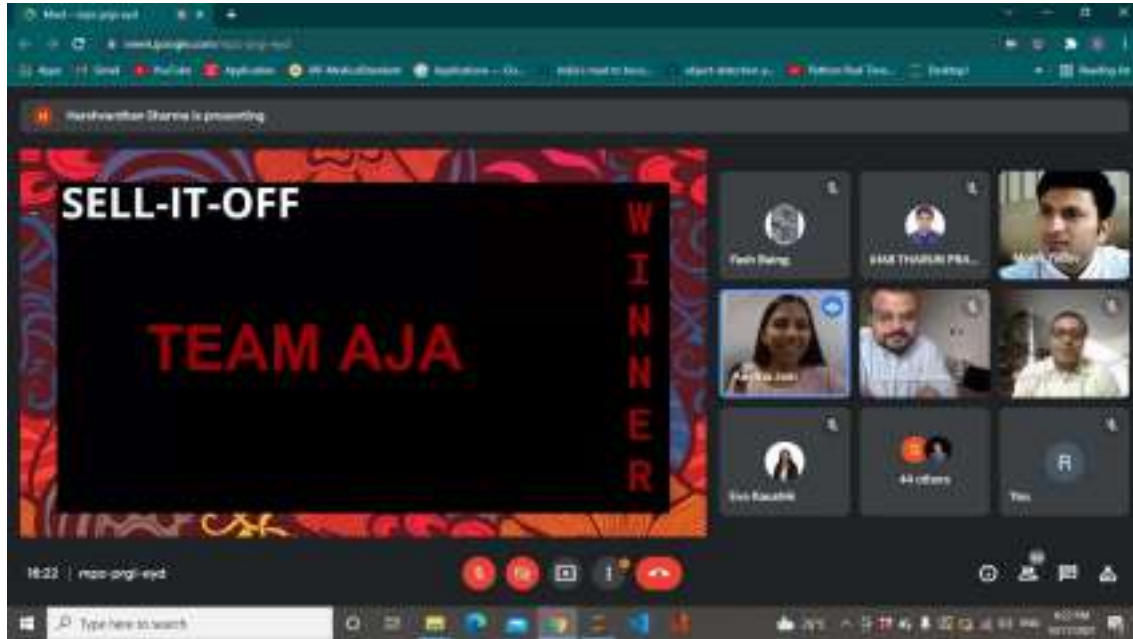


Fig. 4. Closing Ceremony.



## **IEEE DAY 2021 AWARENESS CAMPAIGN** **EVENT REPORT**

**Dated:** 8<sup>th</sup> September, 2021

**Time:** 6:00pm

**Venue:** Google Meet

**Organizers:** IEEE ADGITM

**Total no. of Attendees:** 30+

### **HIGHLIGHTS:**

ADGITM conducted an IEEE Awareness Session on the Topic: “Serving Humanity through IEEE” on the occasion of IEEE Day. The guest speaker for the event was Mr. Ramneek Kalra. He is an IEEE Impact Creator, the ambassador of Delhi IEEE day, and is proficient in extraordinary and valuable skills. Attendees got to know about the IEEE organization and the opportunities that it offers to its members. The session was full of knowledge and was attended by about 40 attendees with great enthusiasm.

### **Topics Covered:**

- What is IEEE
- Purpose of IEEE
- IEEE overview
- IEEE tools and resources
- Opportunities that IEEE offers
- Resources that IEEE provide to its members
- IEEE strategic plan (2020-2025)
- PVN model of IEEE
- How to join IEEE



**Objectives of Event:**

- The event aimed to spread awareness about IEEE and the opportunities it offers.
- Provide attendees with information about the opportunities and advantages available being a member of IEEE.
- Guide students so that they can take advantage of resources from the organization like books, research papers, etc.
- Aware students that IEEE is not only limited to electronic and electrical branches but offers opportunities in other domains as well.



Fig. 1. Ramneek Kalra during IEEE DAY 2021 AWARENESS CAMPAIGN.



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## **Project Development Program Episode-1**

### **EVENT REPORT**

**Date:** 11<sup>th</sup> and 12<sup>th</sup> March, 2022

**Time:** 10 AM – 12 PM

**Venue:** IEEE Maker's Space

**Organizers:** IEEE ADGITM

#### **About this Session**

IEEE ADGITM conducted a project development program. There were various projects that were displayed in the program in the IEEE maker's space. Many new students joined this program and they were very highly inspired to see various Projects that were made by students of our college including all the branches. These projects were basically made using many new technologies or domains like AI and ML, IoT, etc.

#### **The following Projects were displayed by the students:**

- ***GSM Based Fire Alert System:***

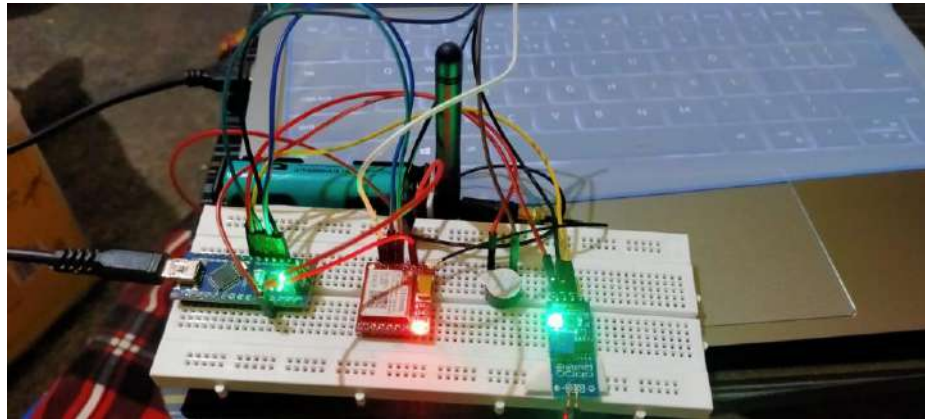
Author: Karan Madan

GSM based Fire Detector & SMS Alert System using Arduino Here, the SIM800L GSM module, a buzzer, and the flame sensor are used for detecting the fire. When the flame sensor detects the fire, the buzzer will be turned "ON" and SMS alerts, as well as phone call alerts, will be sent to the predefined phone numbers stored inside the Arduino sketch.





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• **Trixie - AI-Based voice modulation system :**

Author: Yashika Goyal

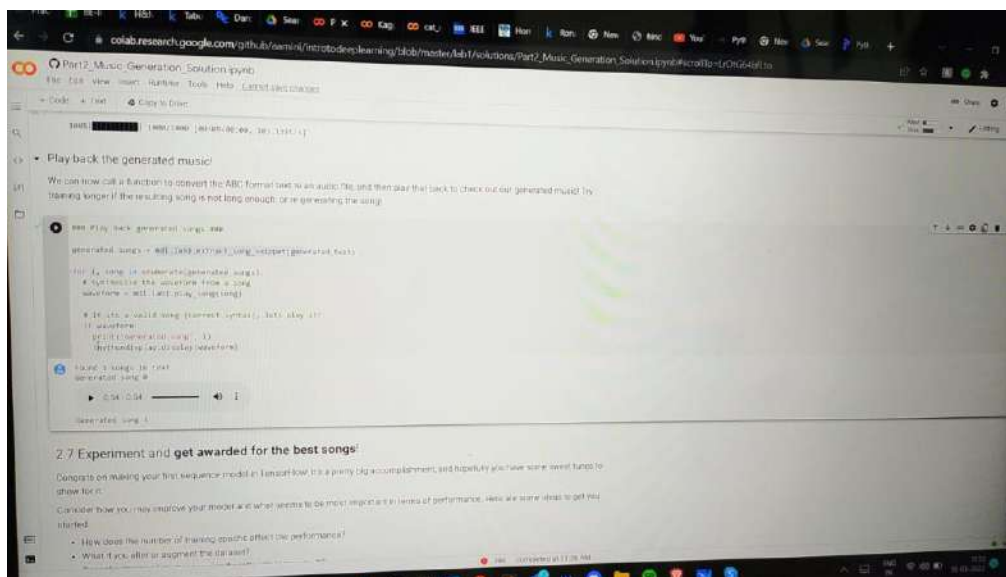
TRIXIS is a project that can play songs, send emails, and whatsapp messages, set reminders, give battery updates, can do google searches, tell you jokes, talk to you, give you weather and news reports, open and close applications, interact with your operating system and so much more, It won't just answer them back like a robot, but understand Your emotions like a friend. It is capable of detecting hate speech, and has a great feature of emotion detection

```
Project: Trixie.py
481
482 # Includes only text from the response
483 answer = next(response.results).text
484
485 print(answer)
486 speak(answer)
487
488 elif "restart" in query.lower():
489     subprocess.call(["shutdown", "/r"])
490
491 elif "hibernate" in query.lower() or "sleep" in query.lower():
492     speak("Hibernating")
493     subprocess.call(["shutdown", "/h"])
494
495 elif "log out" in query.lower() or "sign out" in query.lower():
496     speak("Make sure all the application are closed before sign-out")
497     time.sleep(5)
498     subprocess.call(["shutdown", "/l"])
499
500 elif "lock window" in query.lower():
501     speak("Locking the device")
502     ctypes.windll.user32.LockWorkstation()
503
504 elif "shutdown system" in query.lower():
505     speak("Hold On a Sec! Your system is on its way to shut down")
506     subprocess.call(["shutdown", "/s /ff"])
507
508 elif "empty recycle bin" in query.lower():
509     winshell.recycle_bin(empty(confirm = False, show_progress = False, sound = True))
510     speak("Recycle Bin Recycled")
511
512 elif "emotion" in query.lower():
513     # print("Detecting your emotion, Press Esc Key to Detect.")
514     # speak("Detecting your emotion, Press Esc Key to Detect.")
515     # emotion_detection()
516     # print("You are (emote).")
517     # speak("You are (emote).")
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```

- **Music generator**

Author: Ronak Bhatia

This project is about music generation using RNN, this neural network is best suited for sequential data, our model takes around 400 Irish folks instrumental music and converts its music notes to alphabets, then model is trained on these notes, now we just give the model a single note and it generates new instrumental song.



- **RFId security door lock & attendance system**

Author: Soumyajit Das



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Its main purpose is to control the access of an electric lock through wireless with the use of RFID tag cards or key rings.

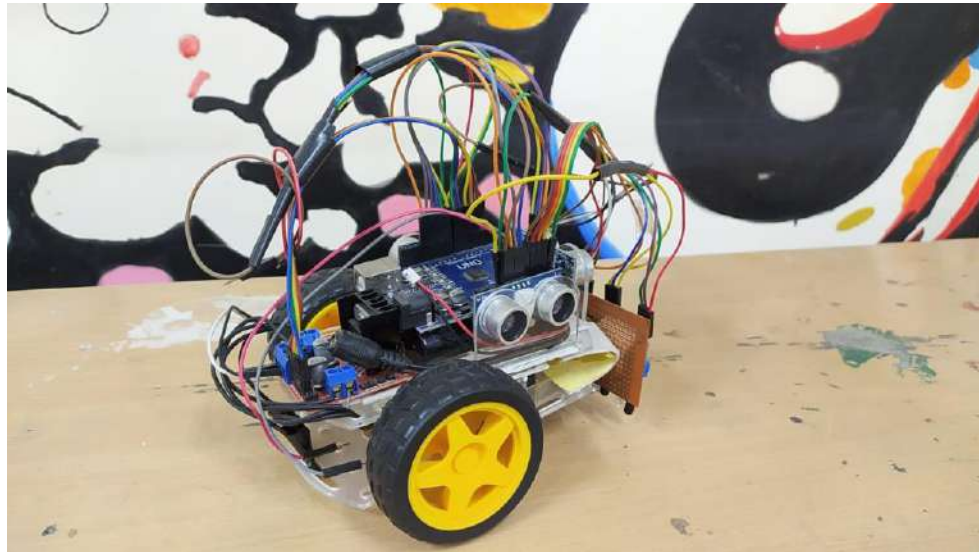
In this project we have used NodeMCU microcontroller, RFID cards, relay module, solenoid door lock and breadboard power supply module to power the circuit. Now in this project we have mainly used two programs one for registering and other for recording data, i.e, opening and closing of door lock.



- **LFR Robot**

Author- Soumyajit Das

*LFR robot is an intelligent robot which can sense any object in front of it and can avoid it by automatically turning itself into the safe/opposite direction.*



- **Cats and Dogs classification using CNN** Author- Pratham Taneja

This model takes photos as the input and identifies whether it is a cat or a dog using CNN that is convolution neural network. We've used this model as it is specifically designed to take photos as input and give better outputs and classification

```
def create_train_data():
    training_data = []
    for img in tqdm(os.listdir(TRAIN_DIR)):
        label = label_img(img)
        path = os.path.join(TRAIN_DIR, img)
        img = cv2.imread(path, cv2.IMREAD_GRAYSCALE)
        img = cv2.resize(img, (IMG_SIZE, IMG_SIZE))
        training_data.append([np.array(img), np.array(label)])
    shuffle(training_data)
    np.save('train_data.npy', training_data)
    return training_data
```

Now, we can build another function to fully process the training images and their labels into arrays:

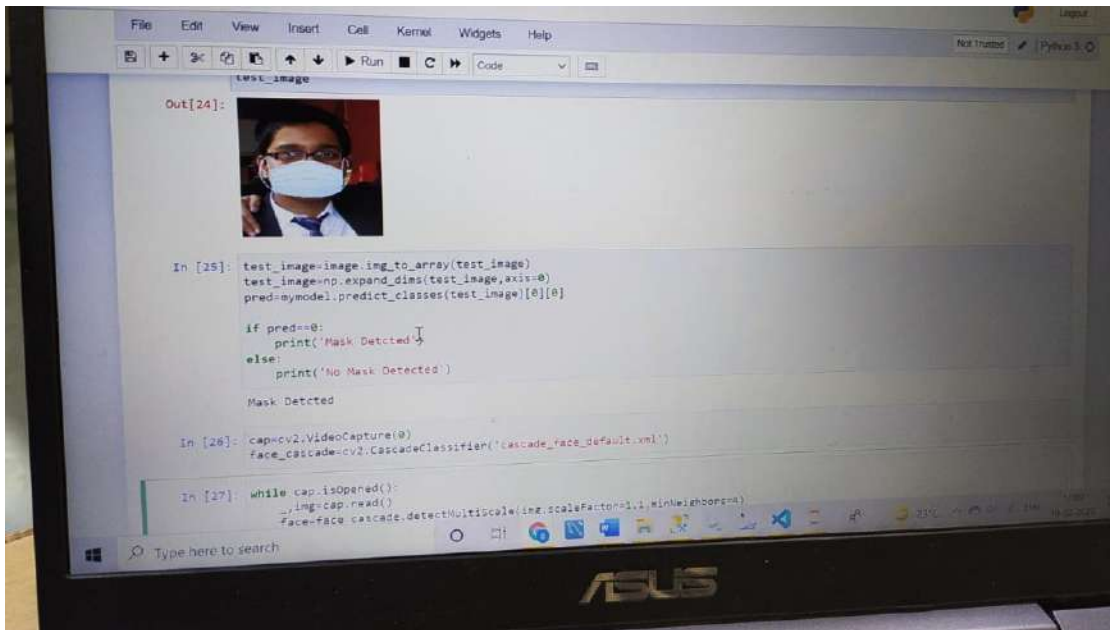
The tqdm module was introduced to me by one of my viewers, it's a really nice, pretty, way to measure where you are in a process, rather than printing things out at intervals...etc, it gives a progress bar. Super neat.



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- **Face mask detection** Author-Chetna Bharadwaj

It was a face mask detection using computer vision and machine learning various libraries were used to train the model . It is a live project to detect whether a person is wearing a mask or not



Fig





## **Student Professional Talk**

**IEEE Student Branch name:** IEEE ADGITM

**IEEE Student Branch Number:** STB64521

**Name of the event:** Student Professional Talk

**Speaker for Student Professional Talk 1.0:** Mr. Anuj Garg (Founder of code for cause)

**Speaker for Student Professional Talk 2.0:** Mr. Bryan Humprey

**Website/Facebook/Twitter etc. link Student Professional Talk 2.0 form:**

<https://ieeadgitm.com/channels/>

**Website/Facebook/Twitter etc. link of Student Professional Talk 2.0 form:**

<https://bit.ly/3tt6TgI>

**Date of Student Professional Talk 1.0:** 30<sup>th</sup> August, 2021

**Date of Student Professional Talk 2.0:** 12<sup>th</sup> September, 2021

**Venue of Student Professional Talk 1.0:** Google Meet

**Venue of Student Professional Talk 2.0:** Cisco WebEx

**City, State:** New Delhi, Delhi

**Country:** India

**IEEE Region:** Region 10(Asia and Pacific)

### **The objectives of the session:**

#### **a) Student Professional Talk 1.0**

1. Make the students aware of the importance of striking a balance between Academics and skill development in college.
2. Make students realize the importance of a positive problem-solving attitude and implement it to solve real-world problems.

3. Help students in learning more about Technopreneurship, how this has benefited businesses in a major way as they can now transmit information more quickly, replacing outdated business processes with more effective, up-to-date ones.

**b) Student Professional Talk 2.0:**

1. Make the students aware of the importance of developing entrepreneurial skills, problem-solving attitude, and much-needed soft skills which are essential for today's job market.
2. Make students realize the importance of a positive problem-solving attitude and implement it to solve real-world problems.
3. Help students how to find their purpose and adjustment of life goals, how this has benefited individuals understand themselves and what are their strengths and weaknesses.

**About the session:**

**a) Student Professional Talk 1.0**

IEEE ADGITM organized a Student Professional Talk by Mr. Anuj Garg, the founder of an EdTech initiative, Code for Cause. The Session provided valuable knowledge to the attendees on Technopreneurship and understanding real-world problems. Keeping in mind the hazards of the COVID-19 pandemic, the mode of the event was online.

*Number of attendees attended: 60*

**b) Student Professional Talk 2.0:**

IEEE ADGITM organized a Student Professional Talk 2.0 by Mr. Bryan Humphrey, a TEDx speaker, and a published author. He has been working in the mental health field for four-plus years and coaches others on becoming an author, speaker, and discovering their purpose. The Session provided valuable knowledge to the attendees on how to find their purpose in life and understanding real-world problems. Keeping in mind the hazards of the COVID-19 pandemic, the mode of the event was online.

*Number of attendees attended: 48*

**Attendees Feedback:**

**1) Student Professional Talk 1.0:**

- a) First of all, I'd like to express my sincere thanks to IEEE ADGITM for giving me this cherished privilege of attending this insightful talk event. It was an experience of its kind. I have had the privilege of learning more about how to develop a problem-solving attitude. This event helped me understand more about technopreneurship and how it is changing the world as we speak. The speaker was experienced and well prepared and was quick to provide answers to every question raised by the attendees.

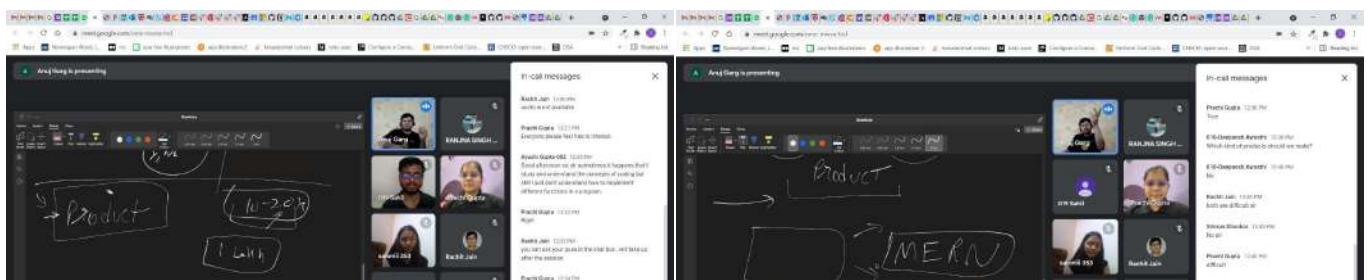
- b) A great event, different from the usual! The event was well thought through and executed. The speaker was interactive with the audience which made the event all the more happening. It was an eye-opener to various myths on technopreneurship . After attending this event I'm more confident to speak up my ideas. Also, I would like to thank IEEE ADGITM for hosting this informative professional talk, it was an amazing experience.
- c) Student professional Talk was an amazing and informative talk event. Anuj sir talked and shared his experience. The tips he gave regarding product development seem effective and I will try to include them in my career. Kudos to the team and organizing members.

## 2) Student Professional Talk 2.0:

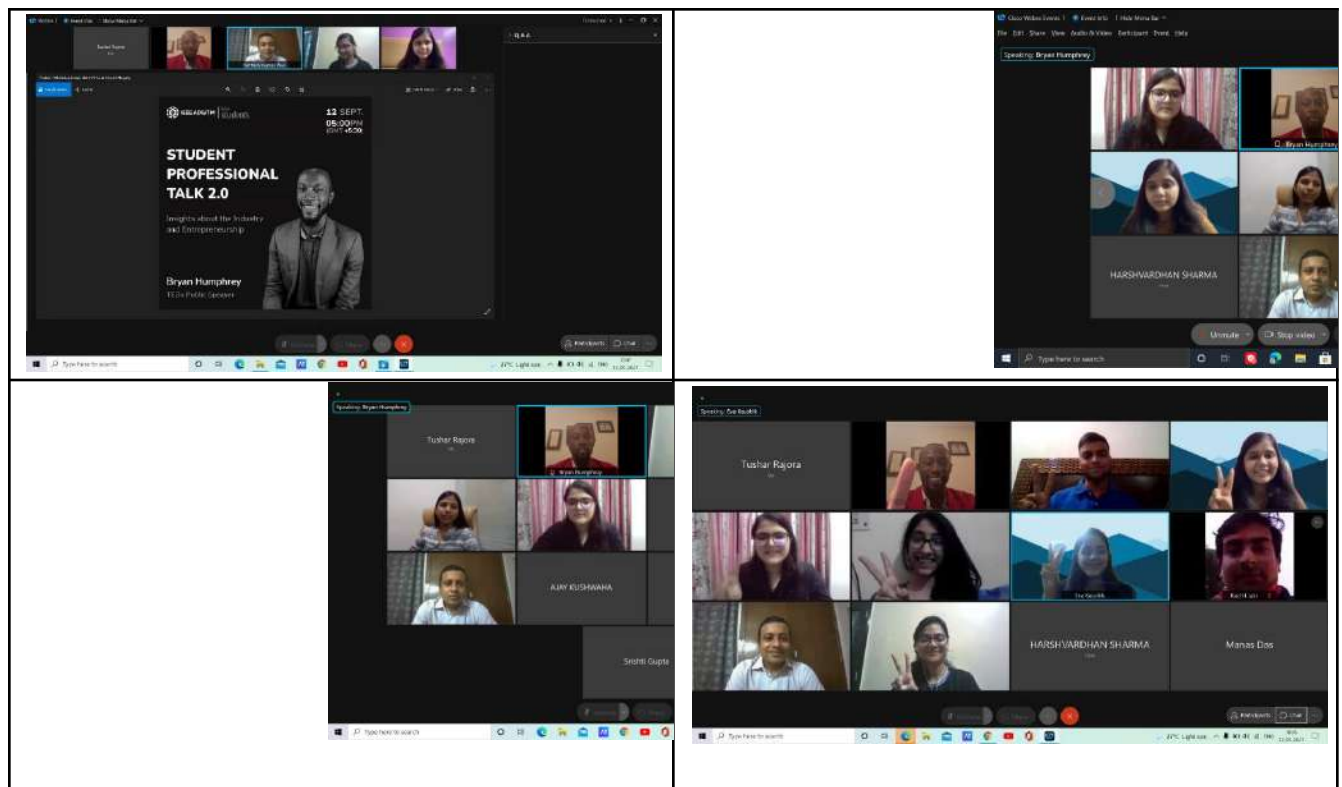
- a) First of all, I'd like to express my sincere thanks to IEEE ADGITM for giving me this cherished privilege of attending this insightful talk event. It was an experience of its kind. I have had the privilege of learning more about how to develop a problem-solving attitude. The speaker was experienced and well prepared and was quick to provide answers to every question raised by the attendees.
- b) A great event, different from the usual! The event was well thought through and executed. The speaker was interactive with the audience which made the event all the more happening. It was an eye-opener to various myths in job market . After attending this event I'm more confident to speak up my ideas. Also, I would like to thank IEEE ADGITM for hosting this informative professional talk, it was an amazing experience.
- c) Student professional Talk was an amazing and informative talk event. Mr. Humphrey talked and shared his experience. The tips he gave regarding finding purpose in life seem effective and I will try to include them in my career. Kudos to the team and organizing members.

## Pictures from the Event:

### a) Student Professional Talk 1.0



## b) Student Professional Talk 2.0



I certify that the report compiled by me is correct to my knowledge.

Student Branch Chapter Representative: Ms. Eva Kaushik

Place: New Delhi

Date: 23<sup>rd</sup> September 2021



## **Workshop on Raspberry Pi**

### **Event Report**

#### **About Embedded Systems SIG**

Embedded Systems Special Interest Group (or SIG for short) is a group of IEEE members who are interested in the field of Embedded Systems. It was earlier mentioned as “IoT SIG” (formed on 7<sup>th</sup> of June, 2021). This SIG was created keeping in mind the following two factors:

1. The number of internships/jobs mentioning a knowledge of embedded systems as a required skill has increased considerably.
2. Number of projects involving embedded systems, especially IoT, has considerably increased in 2020 mainly because of a shift towards automation and digitization.

#### **About the Workshop on Raspberry Pi**

Raspberry Pi (RPi for short) is a widely popular range of single board computers (SBC) using Broadcom processors (Arm 32-bit and 64-bit architecture). These boards were inspired by Arduino development boards and were meant to, as said by Eben Upton, creator of these SBC's, take us “back towards that 1980's world in which every child who wanted to be a computer programmer had a machine that they can use to learn on”. Owing to the power, price, flexibility, and huge community of these SBC's, RPi is very popular with hobbyists and professionals all around the world.

It has been observed that since the pandemic stuck in 2020, there has been a growing requirement for employees skilled in IoT. As IoT, in general, requires that the platforms be remote, a huge emphasis is being put on experience in Nodemcu and RPi.

Keeping this in mind, on 12<sup>th</sup> of August, 2021, IEEE PES ADGITM organized a workshop on the basics of Raspberry Pi for the members of this SIG. The workshop was addressed by Rachit Jain, Vice Chairperson and Treasurer of IEEE ADGITM. He has 3 years of practical experience in the field of embedded systems, IoT development and on using RPi for machine learning, and, therefore, was the perfect person for educating the members of this SIG about basics of RPi. Some tid-bits and a practical demonstration of VNC was given by Praneet Kapoor, Chairperson of PES, IEEE ADGITM.

#### **Details of the event**

**Date:** 12<sup>th</sup> August, 2021

**Time:** 08:30 PM – 09:50 PM

**Platform:** Google meet





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Dr. Akhilesh Das Gupta Institute of Technology and Management

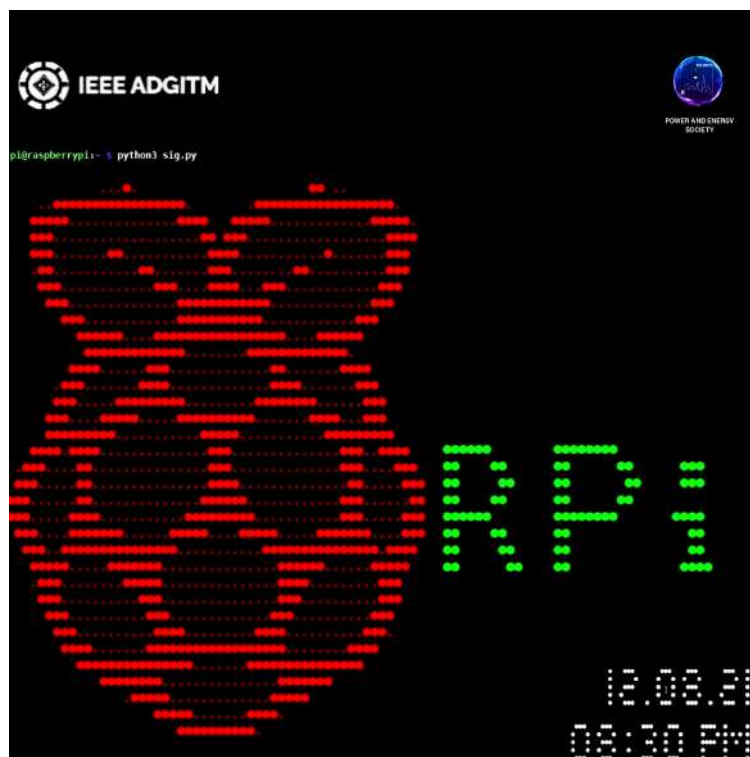
**Presenter:** Rachit Jain, EEE 3rd year, Vice Chairperson & Treasurer of IEEE ADGITM

**Link for joining Embedded SIG WhatsApp Group:**

<https://chat.whatsapp.com/EXyXGGH92Ag35tHurhXXD1>

**Meeting Link:** <https://meet.google.com/mmo-xizt-cwb>

## Poster for the workshop



This poster was designed by Praneet Kapoor, Chairperson of IEEE PES ADGITM and Technical Activities Lead. Image of Raspberry Pi logo was converted to gray scale and each pixel having a value in the given range was assigned a symbol using a Python Script. Final touches like, changing the color of the displayed image, and adding logos, were after running a Python script on RPi 3 B+ on shell.

## Objectives

The objectives of this workshop were the following:

1. To cultivate interest of members in the field of RPi.



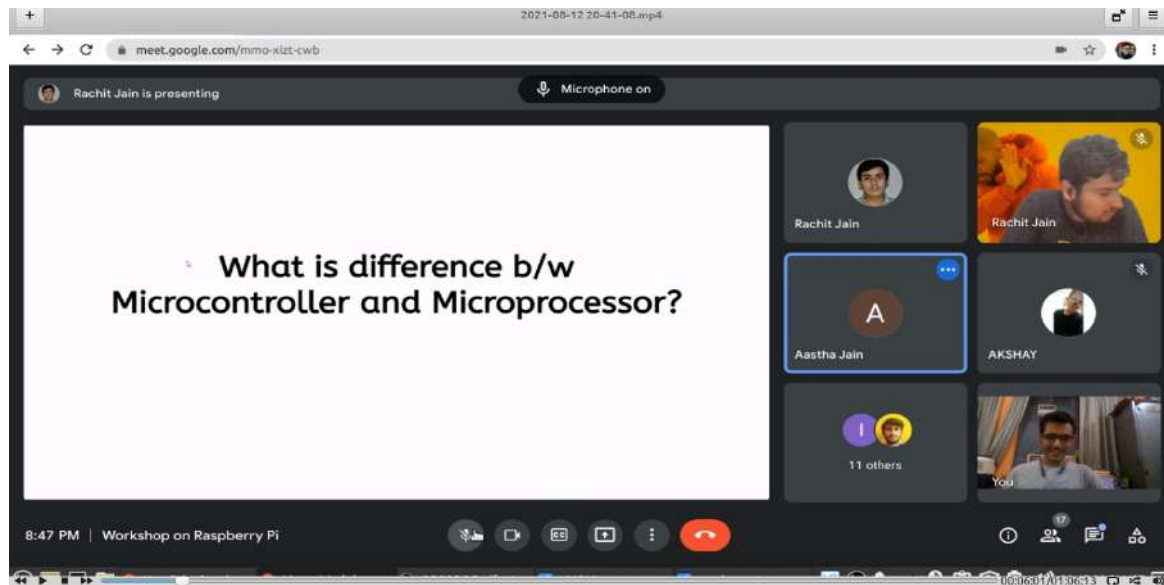
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2. To give various practical demonstration to attendees on the working of some simple projects using RPi.
3. To involve attendees in the demonstration of RPi and IoT projects.
4. To answer the queries of participants as simply as possible without bogging them down with too much information.

All of these objectives were realized during the workshop. Furthermore, from now on, efforts will be directed towards involving the members of this SIG in various projects. This practical experience will help them greatly in the long run.

**Number of Attendees: 19**

### **Pictures from the event**



*Figure 1: Difference between Microcontroller and Microprocessor*



Rachit Jain is presenting

	Raspberry Pi	Computer
Construction	It is a motherboard. All components are soldered directly onto the motherboard	The basis is the motherboard. It has other components such as RAM, Storage, CPU, and GPU that are connected to the motherboard using standard connectors.
Size	Average 85.60 mm × 56.5 mm × 17 mm	14 × 7 inches for the mini-tower and 24 × 8 inches for the full tower cases
Price	\$25 for model A and \$35 for model B motherboard.	\$400-\$3500 for the entire computer.
Memory and Storage	RAM between 1 and 8 GB. Micro SD card for storage.	Average RAM of 4GB and Hard Drive/SSD for storage.
Connectivity	Has 4 USB ports, 1 HDMI monitor minimum, 1 audio port, an Ethernet port. Has Bluetooth and Wi-Fi capability. No Microphone, no additional ports.	Highly depends on the computer model, but usually includes at least the equivalent, with options for easy expanding.
Architecture	ARM	AMD64
Screen	No screen	Can have a screen

8:54 PM | Workshop on Raspberry Pi

Figure 2: Difference between RPi and a typical personal computer

raspberrypi@raspberrypi:~\$ sudo raspi-config

```

raspberrypi ~$ sudo raspi-config
raspberrypi ~$ sudo raspi-config
raspberrypi ~$ ifconfig
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
inet 127.0.0.1 netmask 255.0.0.0
inet6 ::1 prefixlen 64 scopeid 0x200<host>
loop tapuacellm 3000 (local loopback)
RX packets 20 bytes 720 (720 B)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 20 bytes 720 (720 B)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

wlan0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
inet 192.168.1.38 netmask 255.255.255.0 brd192.168.1.255
inet6 fe80::4db:602b:128::4db prefixlen 64 scopeid 0x1000<eth>
ether 88:27:eb:3c:f4:ac tapuacellm 3000 (Ethernet)
RX packets 40002 bytes 3170014 (3.1 MiB)
TX errors 0 dropped 0 overruns 0 frame 0
TX packets 43289 bytes 3502412 (3.5 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
raspberrypi ~$

```

You're presenting to everyone  
[Click here to return to the video call when you're ready to stop presenting](#)  
 Activate Settings

09:21:13 PM IST

Figure 3: Demonstration of VNC Viewer



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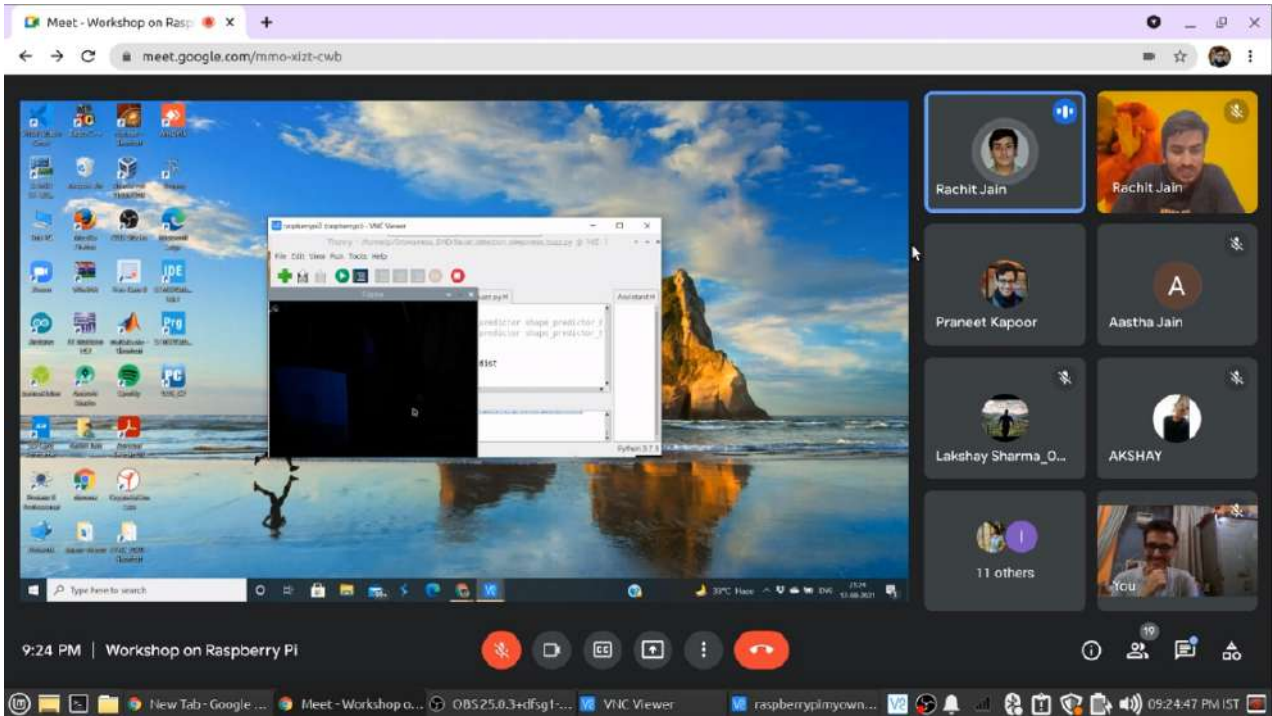


Figure 4: Demonstration of an IoT project involving the use of a an RPi camera module

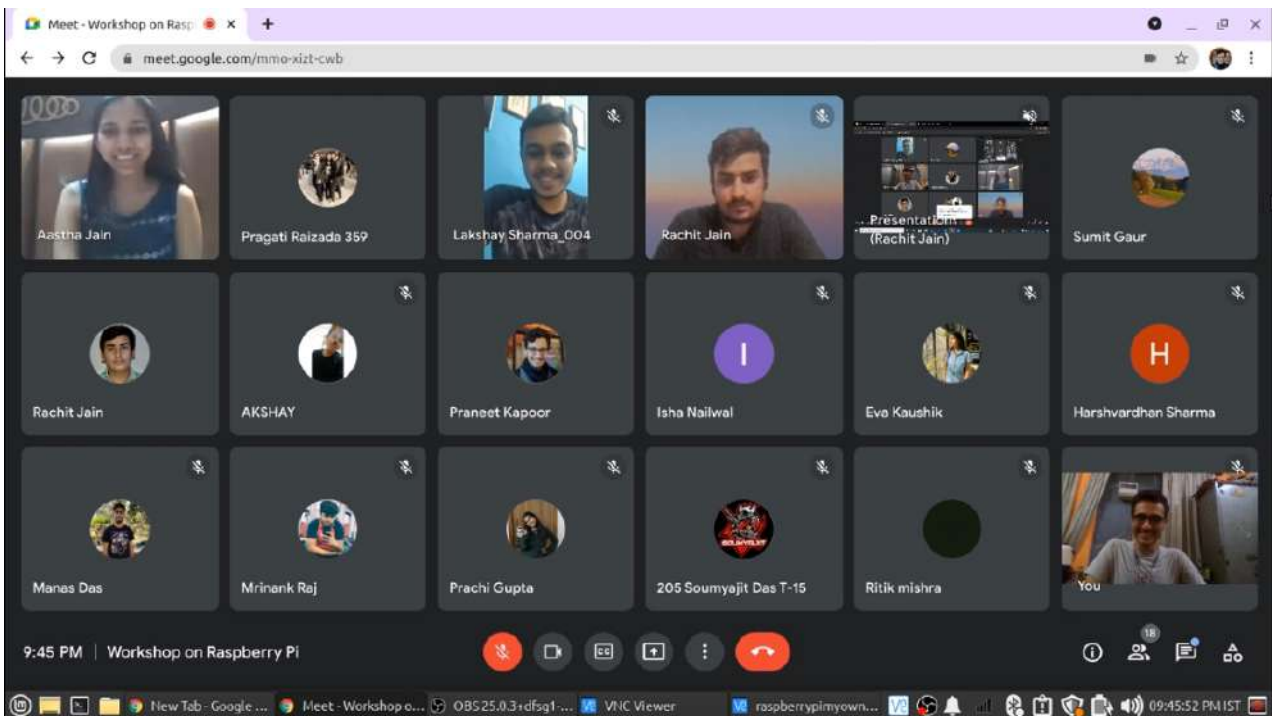


Figure 5: Group photograph of attendees



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**Dr. Akhilesh Das Gupta Institute of Technology and Management**

## **Conclusion**

The workshop was a huge success. All the objectives set before the workshop were achieved and the feedback of attendees was also quite positive. Attendees used were given a practical demonstration of control of RPi using VNC Viewer and SSH. Furthermore they were shown how a camera can be interfaced with RPi. There doubts regarding its interfacing with a display were also addressed. With the efforts being directed towards making sure that every member of this SIG has at least one project to their name, this workshop and others like it will soon bear their fruit in the near future.