Muffakham Jah College of Engineering and Technology

IEEE-Computational Intelligence Society

STUDENT CHAPTER

ANNUAL REPORT

March, 2022

AUGMENT

ABOUT

The future of Augmented Reality is getting evident in various industries. Traveling, gaming, media, marketing, education, and entertainment are some of the major sectors where this field is creating an impact. The reason for such high demand is simply due to the huge potential benefits of the augmented reality software which is able to make revolutionary innovations throughout many industries.

IEEE CIS MJCET conducted an online hands-on event on augmented reality where the participants were guided by speakers certified by Facebook and an industry expert to create AR experience for Instagram and Facebook.

Speakers: Karthik Guduru & Pal Kagrecha

Venue: Google Meet

Registrations: 90

THE EVENT

The AR hands on workshop was a two-day event conducted in online mode with over more than 150 participants.

On day 1, all the necessary details related to AR and VR were discussed.

Topics from Day 1:

• Introduction to AR and VR

• Busting myths about AR

• What is AR & its importance

• Use cases of AR

• Occlusion

• Download & setup of AR studio

Day 2 was a complete hands-on event where participants were given:

• Hands on AR experience

• Tutorial: How to bring newspaper to life

• Harry Potter AR experience walk through

• AMA session & explanation of capstone project

HEADSTART

ABOUT

To become a successful engineer, one needs to understand which skills are in demand now and which industry sectors are growing at the moment. To help students solidify their resume and make the best use of this pandemic while staying indoors, IEEE CIS MJCET plans to present a series of events under the name "HEAD START" where all its chapters will be based on "how to make the best use of your time at college" by conducting events individually for:

- Research papers
- Interviews
- Hackathons
- Self-learning
- Projects

Speakers: Karthik Guduru, Isra Azizunnisa ,Syeda Hiba Siraj & Mohammed Abdul Moid

Venue: Google Meet

THE EVENT

The Chapter 1 of HeadStart was an introductory event of the series which was conducted in online mode. Different speakers from the club gave insights on different chapters to enhance the understanding of participants.

The different chapters and topics discussed under them were: -

PROJECTS & SKILLS

- What are projects?
- How can you get started with projects
- Self branding of your project
- Career paths in demand, and what projects can be made from them
- Ui Ux Developer
- Ui/Ux Developer
- Web Developer
- Android Developer
- Data Analysis

(Relevant resources for each career path that might be helpful were provided)

HACKATHONS

- What is a hackathon?

- Getting started with hackathons

- Importance and examples of hackathons

SELF LEARNING

-Tips for self-learning

-Choosing the right course

RESEARCH PAPER

- What is Research?

-Importance of research papers

- Types of Research Papers

- Journals and Conferences

-Writing and publishing a research paper

INTERVIEW SKILLS

-Building overall profile

-Balancing academics and extracurriculars

-How to showcase leadership qualities on resume

UNRAVELING PYTHON

ABOUT

Coding is arguably one of the most important skills for current as well as future generations to learn. Python is one of the most popular programming languages in the world and is the number one language choice for Machine Learning, Data Science and Artificial Intelligence. To upskill students with this dynamic programming language, IEEE CIS held a comprehensive workshop.

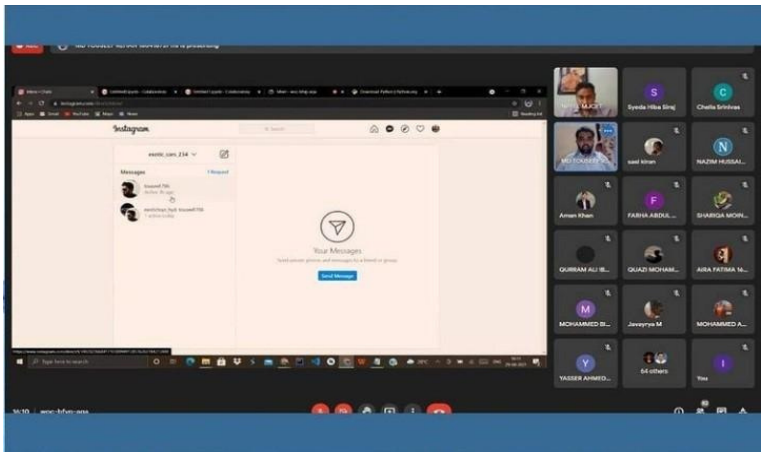
With no prerequisites required, students from all branches were well-versed from the basics to advanced Python programming through this workshop. At the end of the workshop, students were required to build games and other exciting projects to exhibit their programming prowess in Python.

Speakers: Irshad Shaik, Adil Shaik, Saima Qudrath Khan, Maryum Urooj, Arshi Fatima, Syeda Sarah Kaunain, Syed Rahman Ahmed, Aman Khan and Chella Srinivas.

Venue: Google Meet
Registrations: 250
Start time: 28 Aug 2021, 12:30
End time: 29 Aug 2021, 04:00

THE EVENT

With an overwhelming response of around 200 students from all streams, we have successfully reached our goal by training students on python from the very basics of this versatile programming language.
The topics that were covered in the workshop included:
1. Introduction
2. Operators
3. Conditional Statements
4. Loop and iterations
5. Lists and Strings
6. Functions
7. Sets, Tuples and Dictionaries

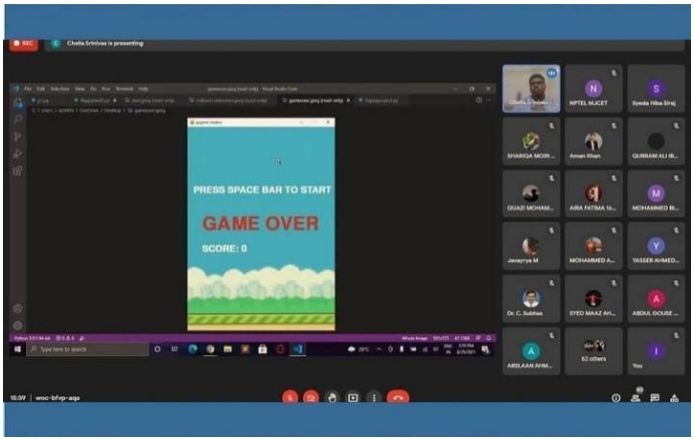


Day-One: Students were given an introduction to allthe basic tools and features of python. It was a very interactive session between the actively participating students and the enthusiastic speakers. The syntactical and semantical overview of Python was given.

Day-Two:A hands-on session was conducted on the secondday where students were taught how to build a flappy-bird game from scratch. A brief introduction to an Instagram chat-bot was also provided for better understanding of the programming language. Keeping in mind the fact that projects are what depict one's true knowledge, we at IEEE CIS wanted the participants to get a better understanding of Python by a hands-on session where they would try and build the game along with the speaker.

Doubts were encouraged and a healthy learning environment was established with the participants creating their first ever python project with us.

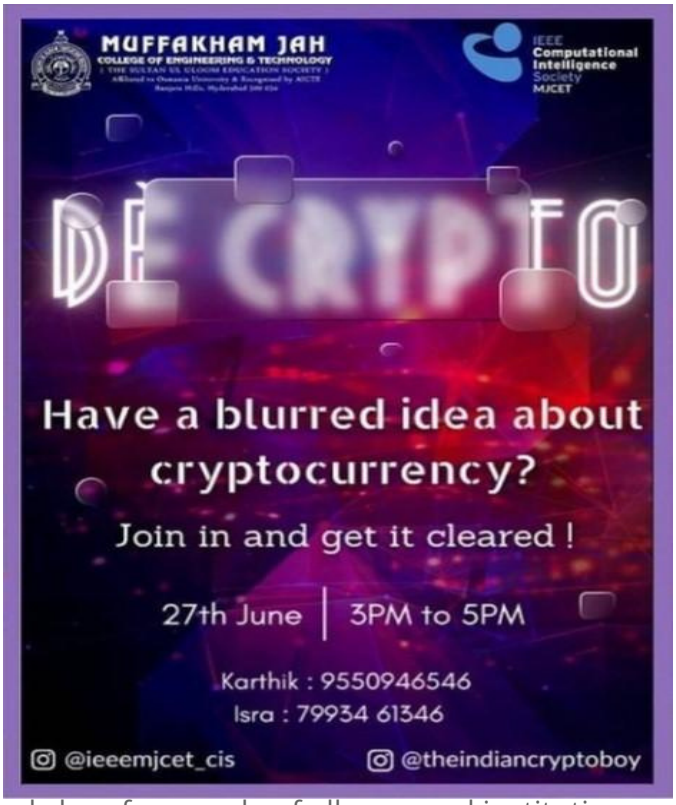
The willingness of the participants to follow, with undivided attention, the complicated procedures outlined in the workshop gave us the enthusiasm to conduct it with delight. Maximum efforts were put from both ends to make this workshop a successful exceptional event.



To appreciate those who had completed the two-day journey of learning with us, a certificate was presented.

DECRYPTO

ABOUT



The global economy is inevitably moving towards a digital ecosystem. From investment to money transfer, everything is going paperless. The newest and most promising addition to the digital payment sector is cryptocurrency.

To spread more knowledge and awareness on this emerging technology, “Decrypto” was conducted by IEEE CIS and a speaker – Tejas Badani, a YouTuber and a crypto enthusiast was invited to speak during the workshop.

We at IEE CIS believe that knowledge must not be limited to one’s own field of education. We gave light to this belief of ours by conducting this online workshop for people of all ages and institutions.

Speaker: Tejas Badani

Venue: Google Meet

Registrations: 200

Start time: 27 June 2021 3:00 PM

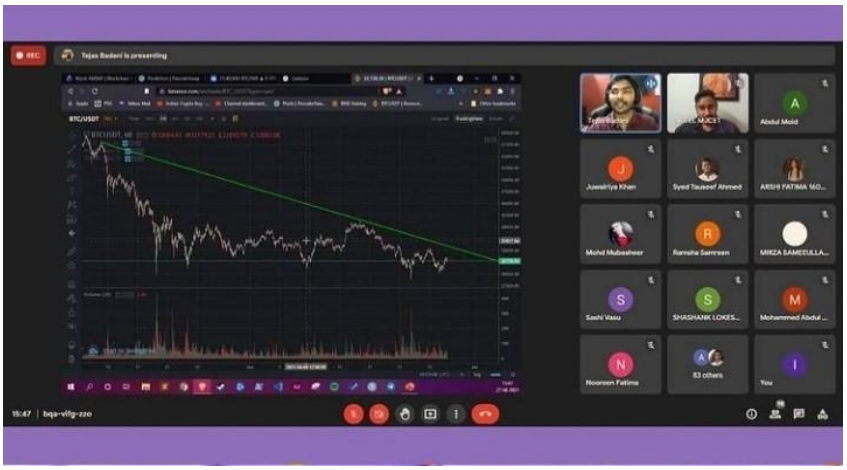
End time: 27 June 2021 05:00 PM

THE EVENT

Cryptocurrency is important and it is not going away, or be limited to 100 years as others may speculate: transactions are fast, digital, secure and worldwide, which in essence allow the maintenance of records without risk of data being pirated. Even with a promising future, there is very little that is known to the common public about cryptocurrency.

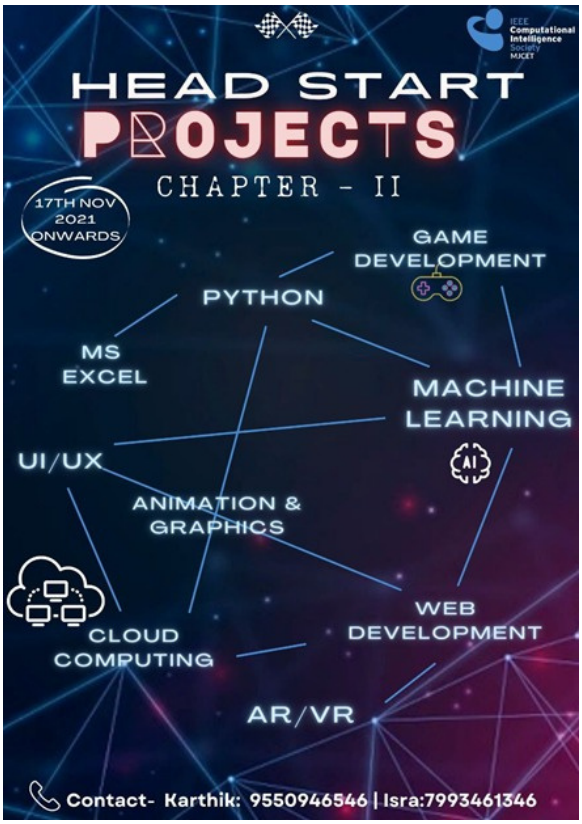
Tejas Badani aka Indian Crypto Boy who was the guest speaker in this workshop helped us in bursting out myths and helped the participants in understanding the basic concepts and implications of cryptocurrency and why you should invest in it. He has been actively participating in the cryptocurrency market for the past couple of years. His YouTube channel had been well received by audiences and his past experience of working in a blockchain company helped him give a number of insights into the world of cryptocurrency. Along with a hands-on session on how to invest in cryptocurrency, Tejas Badani made an audience of 200 participants aware of everything we need to know on how to get started with crypto.

The guest speaker enlightened us with various insights into the emerging field of cryptocurrency. We were successful in upholding yet one of our core visions of spreading knowledge beyond our fields of expertise and separating fact from fiction about this very interesting concept.



HEAD START 2.0

ABOUT



Good engineers are not only a product of their academics but also their technical skills. Keeping that in mind, we at IEEE CIS have come up with the perfect HeadStart for one's technical development. This is the second of many events to come under the "HEADSTART" series that we have been conducting for the past year.

Open for all branches; students are required to make projects that will not only help in making their resumes attractive, but also give them a chance to enhance their skills in the chosen domain.

Registrations: 350

Venue: MJCET

LAUNCH

The launch of the one month event at the Ghulam Ahmed Hall was impeccable. We had an overwhelming response of students from all the streams.Needless to say, projects greatly boost up one's resume, be it for job opportunities or higher studies.
The enthusiasm of students to start this journey of self learning and amplify their skills was overwhelming.The main aspect of conducting the inauguration of HeadStart 2.0 was to introduce the various domains CIS offered for the students to work on as projects during this month long event. Apart from that an overview of the details regarding the projects, the mentorship, learning scope etc were also discussed.

The various domains of the event were:

PYTHON
UI/UX
MACHINE LEARNING
MS EXCEL
GAME DEVELOPMENT
WEB DEVELOPMENT
AUGMENTED REALITY
CLOUD COMPUTING

PROJECTS

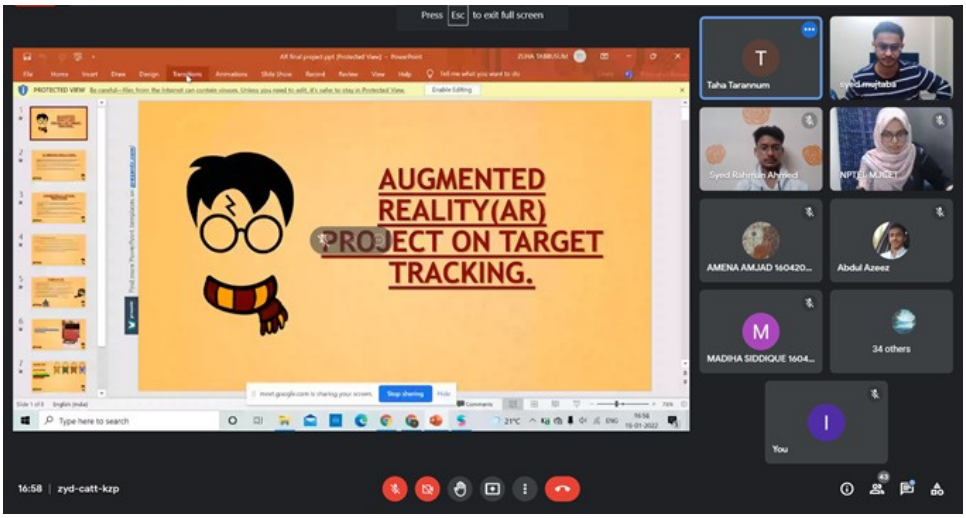
"Achievement Unlocked" was all about unfolding the magnificent projects created by our participants, who in the process not only built projects, but developed numerous other skills of immense utilization in their prospective careers.

AR/VR:

-Fruit Mania

-Harry potter project tracking

-Basketball (Hoops or oops)



GAME DEVELOPMENT:

-Dragon Warrior

-Flappy Bird: No way home

-Dino Run

MACHINE LEARNING :

-Covid Analysis

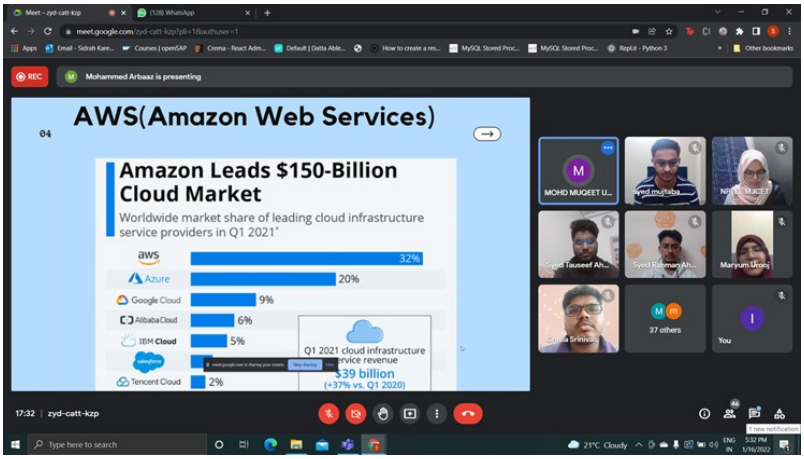
-Movie recommendation system

-Song recommender Spotify

-House price prediction

-BigMart

CLOUD COMPUTING:



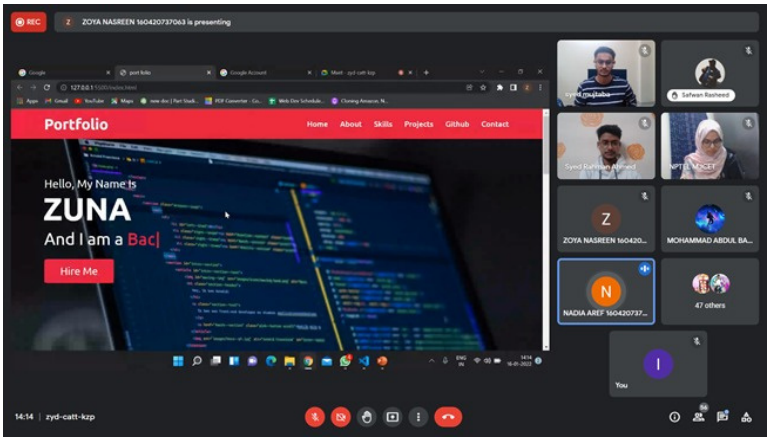
WEB DEVELOPMENT:

-Quiz Website

-Personal Blog

-Portfolio Website

-Netflix/Amazon/Spotify clone website



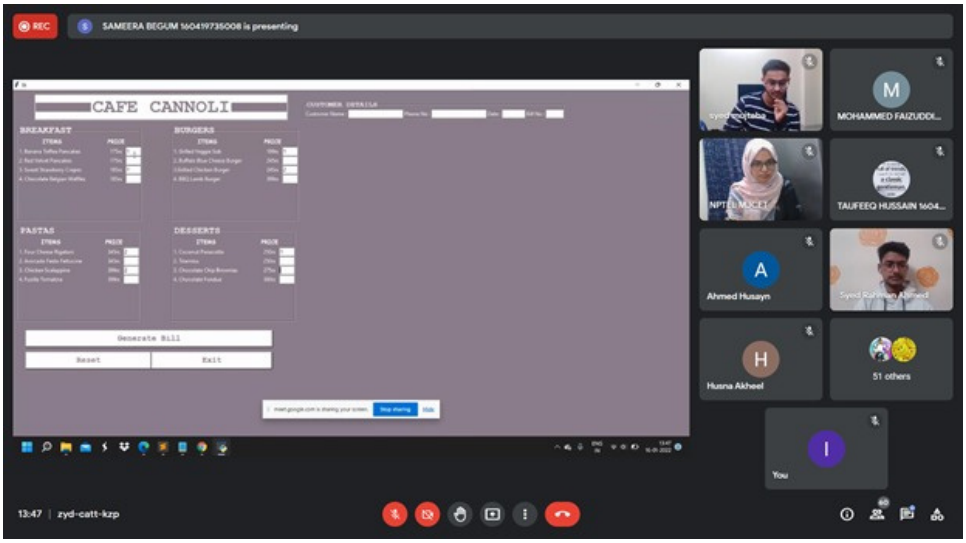
PYTHON:

- Alarm clock

-Hangman game

-Restaurant Billing System

-Customer/clothing billing system



UI/UX:

- Blog

-Food delivery page

A month-long journey full of highs and lows, but those who managed to stick through it all, deserved a notable appreciation in the form of a certificate of completion.

Certification along with Mrs. Mousmi Ajay Chaurasia's kind and motivating words marked the end of this month-long event.

PLANTATION DRIVE

ABOUT

Plantation of Trees is the need of the hour. With rising global environmental adversities, responsibility of saving the earth falls to each and everyone among us. Planting trees is especially important to protect our environment against air pollution and global warming.

Students of MJCET – IEEE CIS participated in a PLANTATION DRIVE with great zeal and enthusiasm on the occasion of ENGINEER's DAY at the campus. The team of CIS having their first offline event as such set up an example for the masses. The drive was a huge success, empowering students with substantial knowledge of the environment and plants.

VENUE: Muffakham Jah College Campus
DATE: 15th September 2021

THE EVENT

The students and staff collected various plants to initiate this drive and celebrate the special day by helping the environment and step up towards afforestation to maintain ecological balance of nature. Mrs Mousmi Ajay chaurasia, HOD along with Devasish Pal, Vice HOD, of IT Department inaugurated the event and inculcated a sense of appreciation towards nature. All the students of CIS were actively engaged in the gardening and plantation processes. A group photograph was taken with

everyone present at the event. These pictures were spread across social media with an aim to give a valuable message to the society whilst also inspiring people across the globe. The event ended at 3:30 pm.

CIS once again proved to be a diverse club, which not only focuses on technological advancements but gives immense attention to the integrity of the environment.

INDUSTRIAL VISIT

ABOUT

Industrial visits allow students to learn in a hands-on manner through contact, working methods, and employment practices. It exposes students to current work practices apart from the theoretical knowledge given in their college lectures.

Students of MJCET – IEEE CIS along with faculty, collaborated with other fractions of IEEE to visit the Imblibun substation, in the month of November. This industrial visit was not limited to students of related departments only. Students of all departments were able to take part and gain knowledge in the aspects included at the Substation and its working.

VENUE: Imlibun Substation

DATE: 27th November 2021

THE EVENT

Students along with faculty, a total of 85 attendees were welcomed at the Imlibun Substation. Facility in charge received us at the entrance and gave us an overview of the Imlibun Substation. Then they took the visitors around from one section to the next and explained the process and components involved in the transmission of electricity to more than half of Hyderabad. Generated electricity comes into the substation at high voltages, as at high voltages electricity can travel large distances. There are several substations placed along the power grid in order to balance loads in urban and rural areas according to requirements of the location, substations also provide help to improve power factor of the current by using capacitor banks.

The trip proved to be a very informative and productive visit, not only for electrical engineering students, but also for other engineering field students who required a much needed portal into the electrical horizon to handle real world scenarios themselves.