



# QUBIT 2023

DEPARTMENT OF  
COMPUTER SCIENCE & ENGINEERING



DEVELOPING MINDS...

# MRS. ALKA DAS GUPTA (HON'BLE CHAIRPERSON)



MRS. ALKA DAS GUPTA

Innovation requires passionate explorers who propel transformation at the workplace. With an ever-changing global scenario, the key to success is responding to the complex and rapidly changing issues in the world of information technology. The Department of Computer Science & Engineering of ADGIPS is always making efforts to justify these points.

We impart an education that is based on consciousness and we rear a breed of young minds that are bustling with self-confidence, motivation, and ever ready to take up challenges. The campus, sports, and academic facilities all bear testimony to this effort. In order to promote an internationally acceptable education, our key focus has been on overall development.

Proficiency in computing technology has become essential for modern-day managers, business leaders, entrepreneurs, and other professionals. It is a welcome development. I look forward to QUBIT 2023 setting a higher pedestal. I wish to QUBIT editorial team a grand success!

# MR. VIRAJ SAGAR DAS (HON'BLE PRESIDENT)



MR. VIRAJ SAGAR DAS

I feel so delighted to find that the path of creativity and innovation is consistently followed by the Department of Computer Science & Engineering. It always encourages its students to actively participate and compete in various competitions and events to show their abilities towards the new platforms of technology.

A great part of the magazine is the fact that it brings us a bouquet of topics which are of utmost relevance and interest to all. It is a great pleasure for me to get to know all the activities and achievements of the Department of Computer Science & Engineering of Dr. Akhilesh Das Gupta Institute of Professional Studies in the form of such an interactive read. I convey my best wishes for the success of QUBIT 2023.



# PROF. (DR.) SANJAY KUMAR

## (DIRECTOR GENERAL, ADGIPS)



PROF. (DR.) SANJAY KUMAR

In his book *On Becoming a Leader*, Warren Bennis wrote, "No leader sets out to be a leader. People set out to live their lives, expressing themselves fully. When that expression is of value, they become leaders. So the point is not to become a leader. The point is to become yourself, to use yourself completely - all your skills, gifts, and energies - in order to make your vision manifest. You must withhold nothing. You

must, in sum, become the person you started out to be and to enjoy the process of becoming."

We at Dr. Akhilesh Das Gupta Institute of Professional Studies believe in helping students to manifest their vision completely. How do we do this? We offer a rigorous education program rooted in all forms of practice, coupled with a vast array of electives and opportunities that come from our position of being affiliated with a major university. We give you the tools to continue learning and growing long after you leave our doors, we create opportunities for internships and experiences that broaden new horizons. I take this opportunity to express the fact that every effort is made to improve the existing best services to bring out the best for the welfare of our institution and the growth of our students.

# PROF. (DR.) NIRANJAN BHATTACHARYYA (DIRECTOR, ADGIPS)



PROF. (DR.) NIRANJAN  
BHATTACHARYYA

Dr. Akhilesh Das Gupta Institute of Professional Studies (ADGIPS) is now in its nineteen year with great success as a premier technical institution. It has emerged as one of the most preferred institutes of Engineering, Management & Law.

We are today among the best education providers in the GGSIPU system. Our results are exemplary both from the point of view of merit as well as from the placement perspective. Our students have been placed in the best organizations of the country. Many have gone abroad for higher studies. The last Seven years have been a challenging and rewarding experience for us.

Babu Banarsi Das International Group of Educational Institutions has evolved as a symbol of quality education dedicated to nurture the talent and aspiration of the dynamic, vibrant & bright youth of our country. Globalization has brought in its wake an emphasis on consumer concerns, such as quality (quality assurance is the need of the hour for continuous upgradation), infrastructure and teaching-learning processes. Economic restructuring of any country heavily depends on the institution's performance and technology-driven teaching practices. Dr. Akhilesh Das Gupta Institute of Professional Studies, New Delhi has introduced such practices to develop young students as engineers to meet these demands of society. Our students are creative and highly professional.



# DR. SAURABH GUPTA

## (HOD, CSE, ADGIPS)



DR. SAURABH GUPTA

Once an author very rightly said that “Listen to the people who love you. Believe that they are worth living for even when you don't believe it.” The Educational System of ADGIPS is not limited to a defined curriculum only but to develop and cheer all the spheres of people especially students associated with.

ADGIPS's Department of Computer Science & Engineering always works in the direction of enhancement of Entrepreneurial abilities among the students and helps them in working on those relevant projects which can act as a landmark for our developing society. Department of Computer Science & Engineering is a cluster of some of the great scientific research fields which when together work upon gives wings to dreams to touch the sky of reality. Students of Computer Science & Engineering are placed with top IT companies. Department of Computer Science & Engineering always works towards developing engineers with a rich set of technical, managerial, ethical and social skills so that they can contribute to nation building.

# VISION & MISSION



## DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

### DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

#### VISION

To produce technocrats, researchers, and entrepreneurs in the field of computer science & engineering who are socially responsible.

#### MISSION

- To provide quality education in the field of computer science & engineering with emphasis on research and innovations.
- To inculcate professional behavior, strong ethical values, and leadership skills.
- To provide a platform for promoting entrepreneurship and multidisciplinary activities.



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# EVENTS

# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**ORGANIZED**

## **Faculty Development Program (FDP) on “Artificial Intelligence”**

**Date of Event: February 13th to February 17th, 2023 ( 10:00 AM - 3:30 PM)**

**Venue: Computer Lab, 4th Floor, 2nd Block, ADGIPS, New Delhi**

**Objectives: Regular updates and hands-on knowledge on latest technology developments in AI, Challenges, opportunities and current industry trends.**

### **ACTIVITIES DONE**

Faculty registration on TechSaksham learning platform.

- Conducting activities on TechSaksham LMS.
- Submit assessment and feedback.

### **KEY TAKEAWAYS**

- Faculties participated with great enthusiasm and showed their interest in learning new technology.

### **OUTCOMES**

Total 40 faculties registered for the FDP on Artificial Intelligence.

### **BENEFICIARIES**

Faculty members, ADGIPS.

## REPORT

Faculty Development Program was organized for five days February 13th, 2023 to February 17th, 2023.

- **Day 1:** Program began with an introduction by the Tech Saksham coordinator Mr. Ankit Dixit followed by welcome address by Prof. (Dr.) Ankit Verma, Head Department of CSE. The introduction to the speaker was given by Dr. Shipra Varshney, CSE. The speaker covered the topics such as Introduction to AI and Market trends, types of machine learning, Image recognition using Microsoft Lobe and discussion on python basics. The participants enthusiastically tried various methods of image recognition and reviewing.
- **Day 2:** Program began with a welcome address by Prof (Dr.) Sonu Mittal, CSE which was followed by the speaker's review of the participants work. He gave suggestions to improve the quality of the content. Topics such as exploratory Data analysis and supervised learning, Pandas data frame and series, Linear regression using Ordinary least square were discussed.
- **Day 3:** Program began with a welcome address by Ms. Megha Gupta, Department Incharge, CSE. Topics such as classification and text analytics, Naive Bayes Algorithm, Count vectoriser were discussed.
- **Day 4:** Program began with a welcome address by Prof (Dr.) Sonu Mittal, Computer Science. Discussion on Deep learning, Neural networks, Gradient Descent and back propagation were discussed.
- **Day 5:** Program began with the final assessment of faculties. The program ended with Vote of Thanks by Ms. Megha Gupta, Department Incharge, CSE. Feedback was received from the participants. On the whole the program was well appreciated by the participants.



# FACULTY DEVELOPMENT PROGRAM (FDP) ON “ARTIFICIAL INTELLIGENCE” GLIMPSSES



# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

## **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

### **ORGANIZED**

## **Online Quiz on “Object Oriented Programming Languages [C++, JAVA, PYTHON]”**

**Date of Event: February 27, 2023 (10:00 AM- 11:30 AM)**

**Venue: Online event on the platform “Google Forms”**

**Objectives: To test the objective knowledge of basic object-oriented programming concepts.**

**Activities: Online Quiz on “Object Oriented Programming Languages [C++, JAVA, PYTHON]”**

### **KEY TAKEAWAYS**

- To test the objective knowledge of basic object-oriented programming concepts.
- To increase their existing knowledge of the latest programming languages i.e., C++, Java, and Python.

### **DESCRIPTION**

The CSE department held an Online Quiz on Object Oriented Programming Languages on February 28, 2023. The quiz included 20 objective questions and lasted 15 minutes. Scores were sent via email, and top students received E-Certificates. Toppers were Ishika Garg (IT) in first place and Md Areeb Inam (IT), Yash Sharma (CSE), Simran (ECE), Aditya Sharma (ECE) in 2nd place.

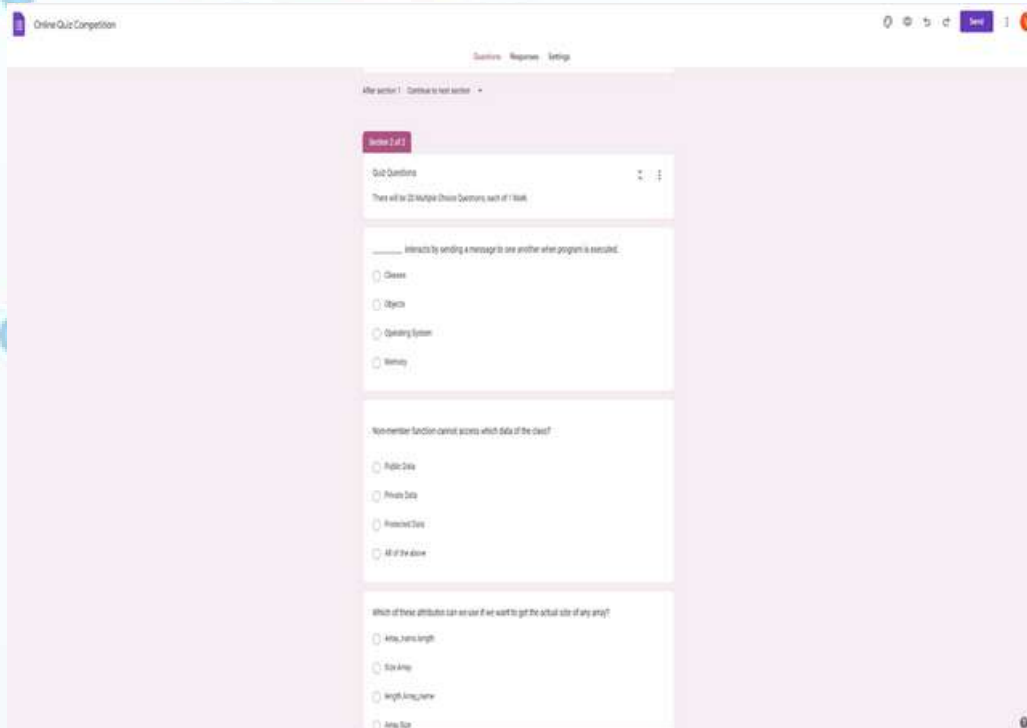
## OUTCOMES

Around 30+ students participated in the quiz event.

## BENEFICIARIES

All stream students.

Photographs of the event with title: Online Quiz on "Object Oriented Programming Languages [C++, JAVA, PYTHON]"



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# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### Workshop on “How to Make Good Quality Research Paper”

Date of Event: March 11th, 2023 (Saturday) (11:00 AM–1:00 PM)

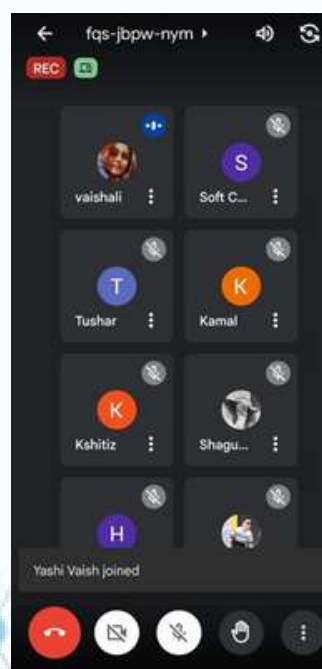
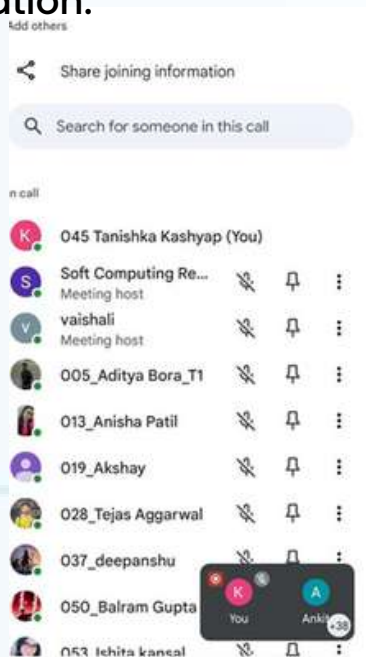
Venue: Online Mode, Google Meet

#### KEY TAKEAWAYS

- To explain what is research and what is the significance of having good quality research paper.
- To encourage the students to write one sample research paper so that they can apply the approach which they have learned.

#### OUTCOMES

Total 211 students attended the lecture and gathered the information.



# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### Guest Lecture on "Cyber Security"

Date of Event: 14th March 2023 (2:00 pm- 3:30 pm)

Venue: Smart Room (4106), Dr. Akhilesh Das Gupta Institute of Professional Studies

#### KEY TAKEAWAYS

- To explain what is cyber security and make the students aware of all the existing security breach techniques so that they do not get trapped by it.
- To make students learn and apply some of the tips and tricks to make themselves safe from all security attacks

#### OUTCOMES

Total 58 students attended the lecture and gather the information

#### BENEFICIARIES

CSE students



# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**ORGANIZED**

## **Workshop on “Latest Machine Learning Techniques and Current Trends of Artificial Intelligence”**

**Date of Event: March 25, 2023 (11:00 AM – 1:00 PM)**

**Venue: Google Meet**

**Objectives: To extensively get aware of the latest machine Learning Techniques.**

**Delegates (Speakers, Outsiders): Mr. Aman – Assistant Professor, SRM University.**

### **KEY TAKEAWAYS**

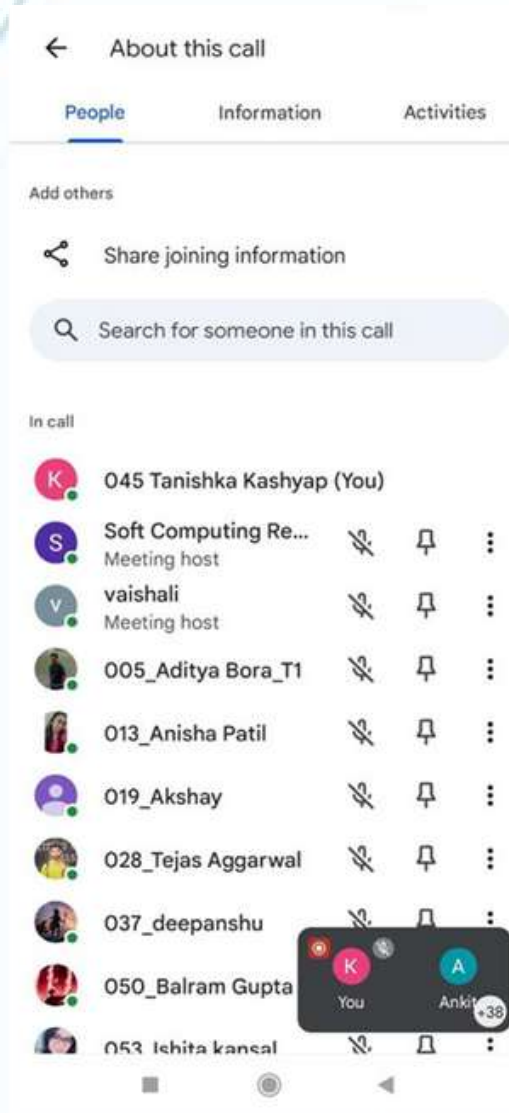
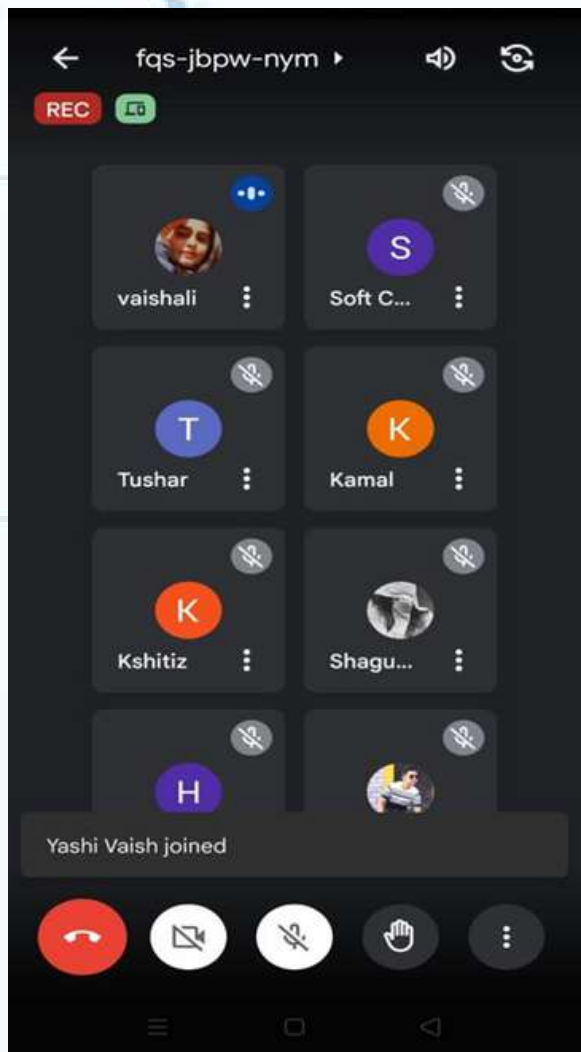
- To explain what is artificial Intelligence and make the students aware of all the existing Machine Learning techniques so that they will learn and be aware of all the latest techniques.
- To make students learn and apply some of the techniques of AI to make themselves understand AI fits Techniques and other.

### **DESCRIPTIONS**

The Department of CSE organized a workshop on "Artificial Intelligence Techniques" delivered by Mr. Aman, an Assistant Professor from SRM University. The workshop focused on the latest AI techniques, including hands-on sessions with machine learning algorithms and datasets. Total 207 CSE students attended and learned about downloading datasets, data cleaning and applying AI techniques.



**Photograph of the Event with title: Workshop on “Latest Machine Learning Techniques and Current Trends of Artificial Intelligence.”**



**OUTCOMES**

Total 207 students attended the lecture and gather the information

**BENEFICIARIES** CSE Students

# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### ALUMNI TALK

**Date of Event:** April 13th, 2023 (10:00 AM- 11:30 AM)

**Venue:** Smart Room (4106), Dr. Akhilesh Das Gupta Institute of Professional Studies

**Objectives:** To focus on updating the knowledge of emerging technologies and encourage to think out of the box.

**Delegates (Speakers, Outsiders):** Mr. Anuj Kumar – Assistant Professor, Apeejay School of Management, Dwarka.

#### KEY TAKEAWAYS

- To encourage students about thinking of a new idea that is out of the box in order to be an entrepreneur
- Explained the importance of time management and managing several other things by listing them according to the priorities.

**OUTCOMES:** 65+ students attended the event and gathered the information

**BENEFICIARIES** CSE students

# ALUMNI TALK

The Department of CSE has organized alumni talk on “Emerging Technologies on Sustainable Management” on April 13th, 2023 from 10:00 AM to 11:30 AM in Smart Room 4106, Block 4, Dr. Akhilesh Das Gupta Institute of Professional Studies. Mr. Anuj Kumar, Assistant Professor in Apeejay School of Management, Dwarka & NIEC alumni of Batch 2004 to 2008, EEE branch delivered the talk. It was attended by 65 + students of the CSE Department. The Guest Lecture focuses on thinking of an innovative idea for becoming an entrepreneur and doing something creative out of it. He asked students to think and pen down their ideas on a sheet of paper and discussed them later during the lecture. He motivated the students to manage their time to achieve their short-term goals and long-term goals through determination and persistence. He also asked the students to be updated on new Emerging Technologies because they will help them to achieve something new. Students really enjoyed the talk.





# ALUMNI TALK GLIMPSES



# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

## **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**ORGANIZED**

### **International Conference on Paradigms of Communication, Computing, and Data Analytics (PCCDA 2023)**

**Date: April 22nd – April 23rd, 2023**

**Venue: Auditorium, ADGIPS, New Delhi .**

**Objective: To provide insight into the research being done in the field of Communication, Computing, and Data Analytics**

**Introduction: The institution with the support of the Soft Computing Research Society has conducted the International Conference on Paradigms of Communication, Computing and Data Analytics, PCCDA 2023. The 350 Research Papers from all across the world were received and out of which 64 papers were presented and will be published in SPRINGER Book Series 'Algorithms for Intelligent Systems'.**

#### **KEYNOTE SPEAKERS**

**Day 1-** Prof. Amir H. Gandomi, Professor of Data Science at the University of Technology Sydney, Australia, Distinguished Professor at Obuda University, Budapest, Hungary

**Day 2-** Prof. Krishna Pratap Singh, Indian Institute of Information Technology, Allahabad

## ACTIVITIES DONE

### Day 1:

The inaugural session was graced with the presence of our Chief Guest Dr. Jagdish Chand Bansal, Associate Professor, at South Asian University, New Delhi. Dr. Bansal addressed the students on the importance of the topic of the Conference and its importance as an emerging technology. He shared the importance of AI and machine learning and their applications.

Keynote Talk by Prof. Amir H. Gandomi on the topic "Genetic Programming- The Evolution of Computer Programs"

Followed by Technical Sessions:

TS 01	Advanced Computing Techniques	TS 04	Signal & Image Processing
TS 02	Recent Communication and Network Systems	TS 05	Emerging Techniques
TS 03	Data Science	TS 06	Advanced Computing Techniques

### Day 2:

Keynote Talk by Prof. Krishna Pratap Singh, Indian Institute of Information Technology, Allahabad on the topic of Secure, Accountable, Fair and Efficient Machine/ Deep Learning

Followed by Technical Sessions:

TS 07	Advanced Computing Techniques	TS 10	Advanced Computing Techniques
TS 08	Signal & Image Processing	TS 11	Signal & Image Processing
TS 09	Emerging Techniques	TS 12	Emerging Techniques

## BENEFICIARIES

All members & Students of ADGIPS, and research scholars across the globe were connected online and offline through the conference platform (Annexure I). 64 Research Papers that were presented will be published in SPRINGER Book Series 'Algorithms for Intelligent Systems' out of which 3 Research Papers were of the 4 Faculty and 9 Students of ADGIPS.



# Photographs of Event

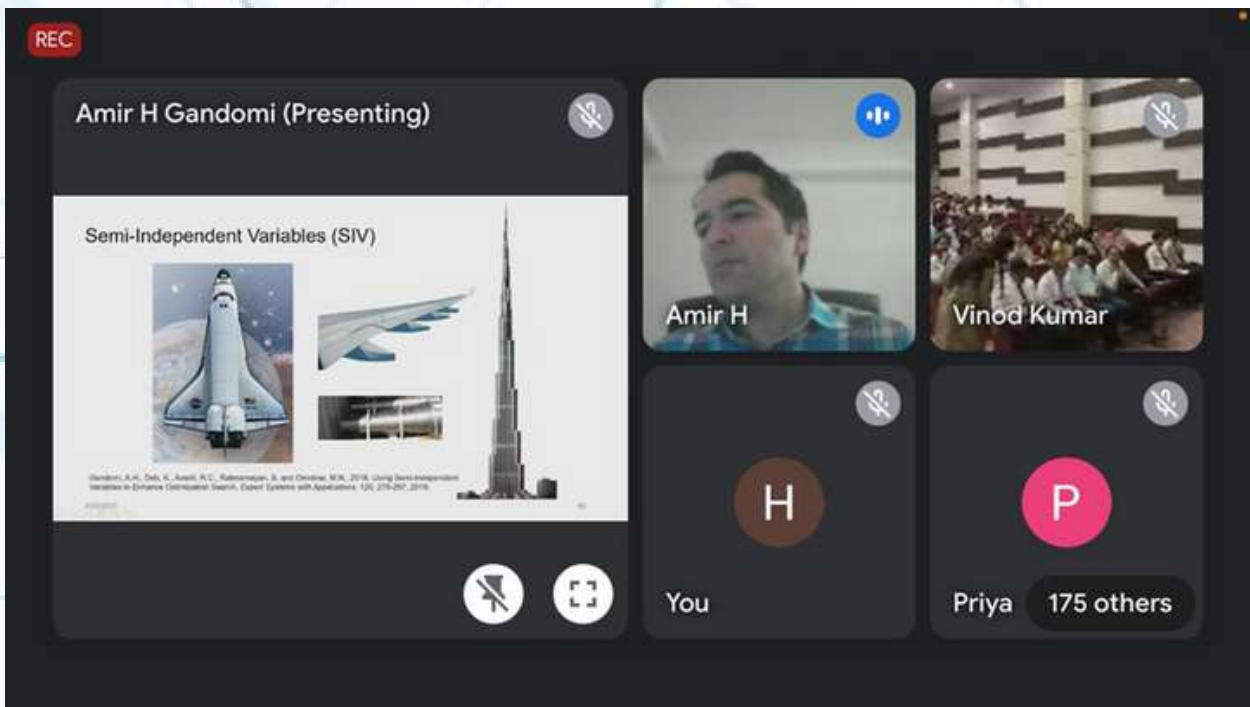
DAY 1: April 22nd, 2023 (Inauguration Ceremony)



Attendees of the Conference in Offline Mode at the College Auditorium

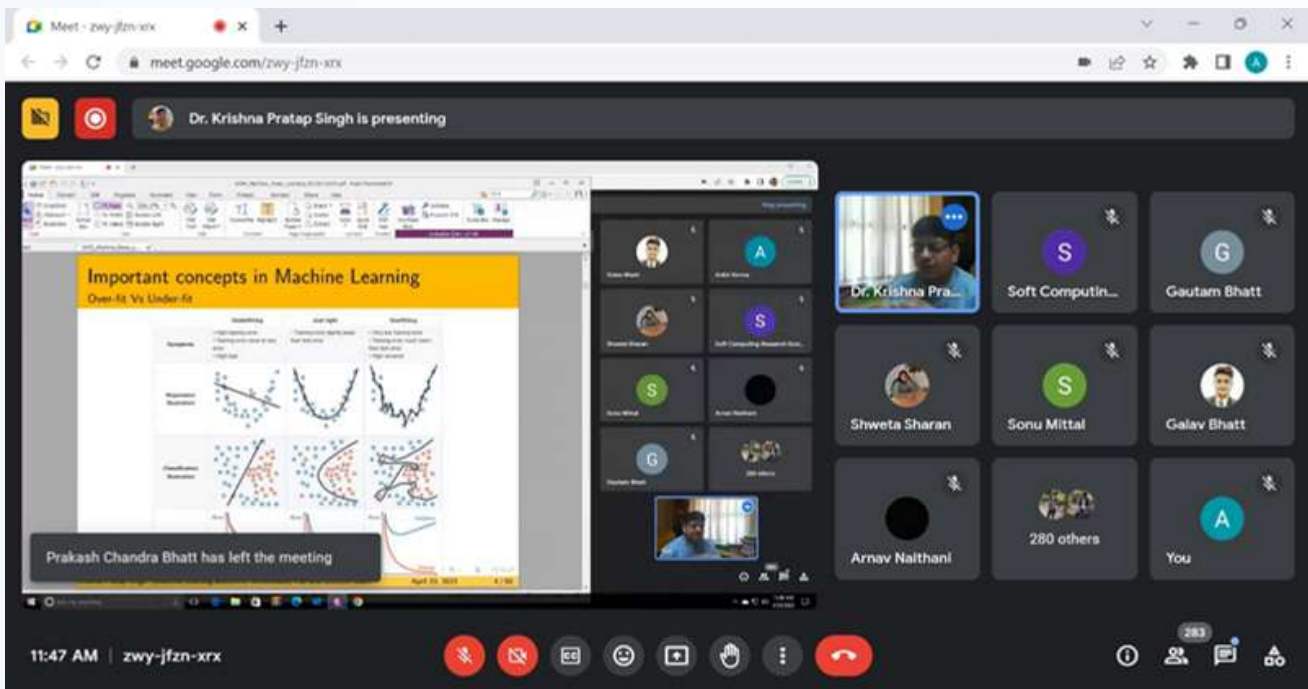


Presenters, Delegates, ADGIPS Officials and an Organizing Team of Faculty and Students



Address by Prof. Amir H. Gandomi, Professor of Data Science at the University of Technology Sydney, Australia, Distinguished Professor at Obuda University, Budapest, Hungary

DAY 2: April 23rd, 2023



Address by Prof. Krishna Pratap Singh Indian Institute of Information Technology, Allahabad

# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

## **DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**ORGANIZED**

### **Guest Lecture on “Cyber Security and IPv6”**

**Date of Event: April 28th, 2023 (11:30 AM- 1:30 PM)**

**Venue: Auditorium, Dr. Akhilesh Das Gupta Institute of Professional Studies.**

**Objectives: To extensively get aware of cybersecurity aspects and Hands on sessions On the Basics of Ethical Hacking.**

**Delegates (Speakers, Outsiders): Mr. Abhijeet Singh – Cyber Security Researcher, Mr. Manmeet Singh- Planner and Consultant for NIXI, Mr. Ajit-Representative from NIXI .**

#### **KEY TAKEAWAYS**

- To explain what is cybersecurity and make the students aware of all the existing security breach techniques so that they do not get trapped by it.
- To make students learn and apply some of the tips and tricks to make themselves safe from all security attacks.
- Hands-On Session on Basics of Ethical Hacking .



# GUEST TALK

- The Department of CSE organized a Guest Lecture on “Cyber security and IPV6” in association with NIXI on April 28th, 2023 at 11:30 AM onwards in Auditorium, Block 2, Dr. Akhilesh Das Gupta Institute of Professional Studies.
- Cyber Security Researcher Mr. Abhijeet Singh delivered the guest lecture.
- It was attended by 197 students of the CSE Department.
- The guest lecture focuses on the cybersecurity aspects and Basics of Ethical Hacking.
- He presented real-life cases where some users get trapped in various vulnerabilities or security attacks.
- He also taught students to take mitigation steps like not visiting unsecured websites, finding the difference between fishing websites and safe websites, how to set a strong password, and how to be safe from existing security breaches.



## OUTCOMES

Total 197 students attended the lecture and gather the information

## BENEFICIARIES

All the student of CSE Department attended the Guest Lecture.



# **DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI**

**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING**

**ORGANIZED**

## **Workshop on Introduction to Block Chain**

**Date of Event: May 24th, 2023 (Friday) (2:30 PM onwards)**

**Venue: Smart Room (4106), Block 4**

**Objectives: To mark the inauguration of Web3Samaj Society and to throw light on blockchain.**

**Delegates (Speakers, Outsiders): Mr. Lovneesh, & Mr. Prakarsh (Sharedum Chain)**

### **KEY TAKEAWAYS**

- To mark the inauguration of Web3Samaj Society on Block Chain.
- The speakers commenced the event by providing a comprehensive overview of blockchain technology and its potential to revolutionize various industries.
- They highlighted the decentralized nature of blockchain, its immutability, and its ability to enhance transparency and security in digital transactions.

### **OUTCOMES**

Total 63 students attended the lecture and gathered the information.

### **BENEFICIARIES**

All students of CSE Department.

**Photographs of the event with title:** An Introduction to Block Chain. Build your smart contracts with the help of the experts





# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

## Seminar on Begin with AI & Deep Learning

Date of Event: May 30th, 2023 (Monday) (2:30 PM onwards)

Venue: Auditorium, Block 2, College Premises.

Objectives: To learn Artificial Intelligence and Deep Learning

Delegates (Speakers, Outsiders): Dr. Prashant Dixit (Associate Professor, MRIIRS Faridabad).

Activities: Seminar on "Begin with AI and Deep Learning".

### KEY TAKEAWAYS

- To Learn the concepts of Artificial intelligence and Deep Learning.
- The Speaker focused on the real life examples while explaining the concept.
- Supervised, Unsupervised and Re-inforcement learning was majorly emphasized.

### OUTCOMES

Total 52 students attended the lecture and gathered the Information.

**BENEFICIARIES** All CSE students.

# SEMINAR ON BEGIN WITH AI & DEEP LEARNING GLIMPSES



# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### Python Programming Quiz

Date of Event: September 27th, 2023 (3:10 PM onwards)

Venue: Lab No. 1, Department of CSE (Block-4)

#### ACTIVITIES UNDERTAKEN

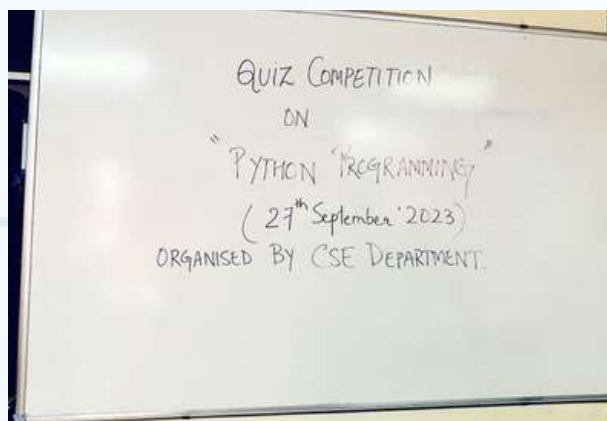
The programming quiz took place in the CSE department laboratory (Lab-1). Students used computer systems with internet access. The quiz aimed to test their programming knowledge within a 30-minute duration. Students participated enthusiastically, showcasing creativity through technical poster designs.

#### WINNERS

1st Position: Raghav Aggarwal, (1st year, AI&DS)

2nd position: Armaan Kumar Mishra (3rd year, CSE)

Mohd Arish Khan (1st year, IT)





# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

### ORGANIZED

## Industrial Visit to Coding Blocks

Date of Event: October 6th, 2023 (11:00 AM - 02:00 PM)

Venue: Coding Blocks, Sector-15, Noida Uttar Pradesh

### ACTIVITIES UNDERTAKEN

The Computer Science & Engineering Department organized an Industrial visit to "Coding Blocks" for 5th Semester students on October 6, 2023, to enhance technical knowledge. Industrial visits bridge the gap between theoretical and practical knowledge, exposing students to technological advancements in the industry.

### OUTCOMES

Total 57 students went for the visit along with 2 faculties.



# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### TECHNICAL RANGOLI EVENT

Date of Event: October 13th, 2023 (10:00 am onwards)  
Venue: Main gate of ADGIPS

#### ACTIVITIES UNDERTAKEN

The "Technical Rangoli Event" at ADGIPS involved students creating rangoli using colors, flowers, and leaves to showcase technical knowledge and creativity within 1-hour duration. Students participated enthusiastically, displaying their skills and creativity.

#### RESULTS

Winners:

1st position: Ms. Nitika (3rd Year, CSE)

2nd position: Ms. Ishani (3rd Year, CSE)



# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### CODING BRAINSTORM

Date of Event: October 13th, 2023 (10:00 AM–11:00 AM)

Venue: Lab No. 2, Department of CSE (Block-4)

#### KEY TAKEAWAYS

The programming quiz in the CSE Department's laboratory (Lab-2) allowed students using computer systems to apply their knowledge to solve programming questions within a 1-hour duration. Winners were determined based on output analysis, showcasing creativity in implementing solutions across various programming languages.

#### OUTCOMES

34 students participated for the event

#### WINNERS

1st Position: Abhijeet Gupta, (2nd year, CSE)

2nd position: Aradhy Umesh (2nd year, CSE)





# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### CompUtsav 1.0 "Technical Poster Making"

Date of Event: October 13th, 2023 (11:00 AM onwards)  
Venue: Lab No. 1, Department of CSE (Block-4)

#### ACTIVITIES UNDERTAKEN

Technical Poster Making Competition in two categories:

- E-poster making
- Physical Poster making

#### OUTCOMES

Total 15 teams participated in the event and winners for both categories were announced

Winners (Best Project):

Vinay Prasad	8915602721
Tushar Kumar	9354741487
Vinay Singh	8115602721



# DR. AKHILESH DAS GUPTA INSTITUTE OF PROFESSIONAL STUDIES, NEW DELHI

## DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

ORGANIZED

### CompUtsav 1.0 "Project Exhibition"

Date of Event: October 13th, 2023 (11:00 AM onwards)

Venue: Lab No. 1, Department of CSE (Block-4)

#### KEY TAKEAWAYS

The Project Exhibition of SIH, Summer Training and Minor Project took place in the laboratory No. 1 in Department of CSE. Total of 22 groups took part in "Project Exhibition". The student's ideas were showcased as they demonstrated prototype of their ideas.

#### OUTCOMES

Students were able to demonstrate their Problem solving Capability, Team work skills, Creative Thinking and Communication skills. The best project was awarded.

#### WINNERS (Best Project):

Shubham Choudhary	8076553661
Vansh Khaneja	7529928842
S Bhuvan	9354545394





# ACHIEVEMENTS



Lakshay Gulati secured the 2nd position in “Live the Code 2.0 hackathon” held at ADGIPS from 8th - 10th september, 2023 organized by “codechef” ADGIPS where he designed an AI based project backed by LLMs.



Manan Gakkhar & team Freak Streets Society won 1st position in his zone at Anugoonj Prelims held at KCC institute Greater Noida. organized by GGSIPU on 6th october, 2023.

Viraj Thakur attained 2nd position in Coding World Cup 2023 an international level event that was a month long coding challenge with daily problems of DSA. organized by Coding Ninjas from 7th October to 18th November.



Somansh Narang and Hemang Bhatt secured the 2nd position in 18th Annual Sports Meet "Chess Event" held at USICT Dwarka, (IPU Main Campus) organized by GGSIPU from 19th- 21st October, 2023.



over 60+ students from CSE Department attended the Indian Mobile Congress held at Bharat Mandapam, Pragati Maidan, Delhi organized by COAI, Department of Telecommunications Government of India on 27th October, 2023.

Saurabh Dhingra Founded "Techit" a Services based Virtual Reality developing company established in 2021, that provides services based on virtual reality.

Website-<https://techit-services.com/>



Mohd Adeeb secured 1st position in "Tug of war" at IPU sports meet held at GGSIPU main campus from 19th- 21st october, 2023 organized by GGSIPU.



# ARTICLES



# VIRTUAL REALITY AND COMPUTER SCIENCE & ENGINEERING



Naman Maheshwari (batch 2020-24)

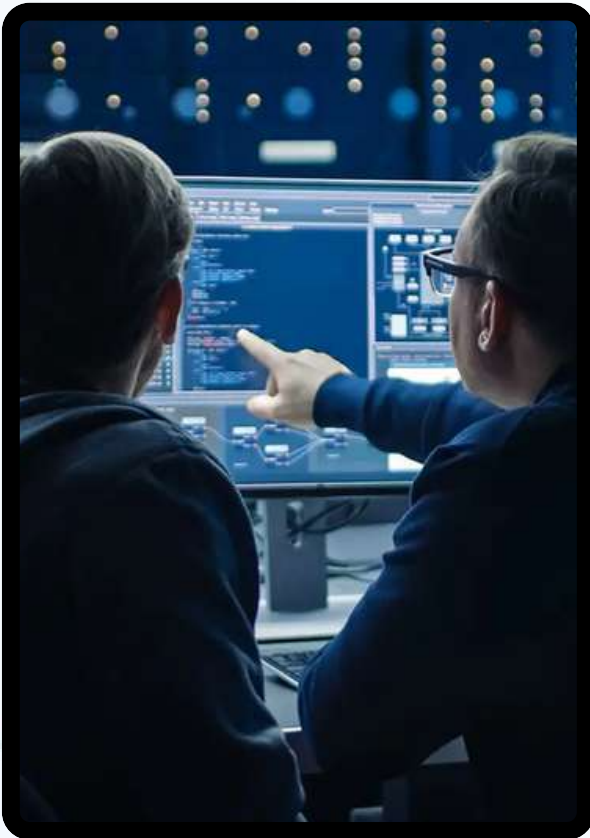
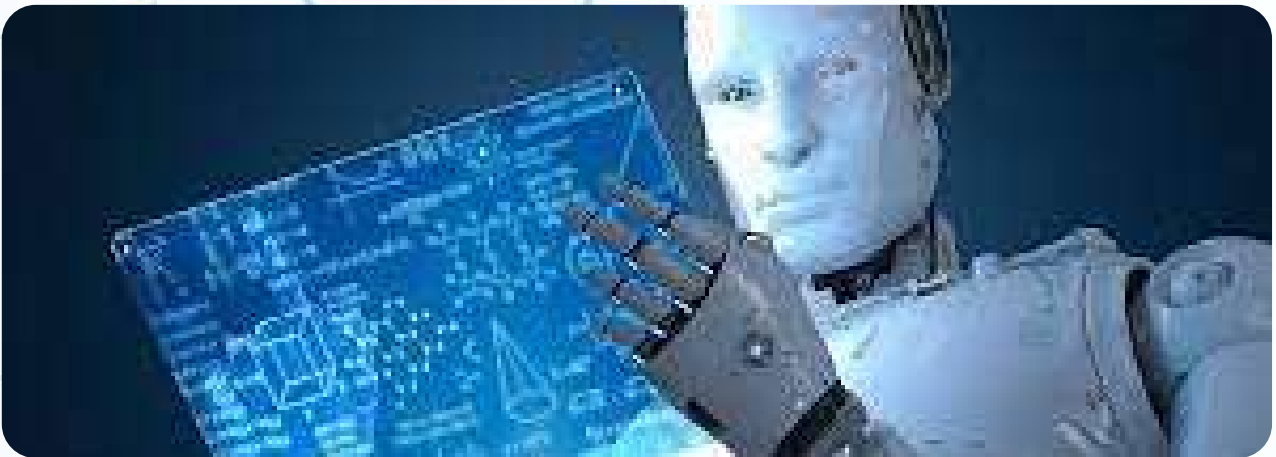
Virtual reality (VR) is a rapidly growing field that has the potential to revolutionize various industries, including entertainment, education, and training. As the technology continues to improve, it is becoming more accessible and is being used in a wide range of applications.

Computer science & engineering play a crucial role in the development of VR technology. Engineers and computer scientists are responsible for designing and developing the hardware and software that make VR possible. In this article, we will explore the various areas of computer science and engineering that are relevant to VR.



Computer Graphics is a key area of computer science that is essential for VR. Engineers need to have a strong understanding of 3D modeling, animation, and rendering techniques to create realistic and immersive virtual environments. They also need to be familiar with various graphics engines and game development frameworks that are used to create VR experiences.

Human-computer interaction is another important aspect of VR. Engineers need to design interfaces and controls that are intuitive and easy to use for the user. This includes designing for hand-held controllers, voice recognition, and natural language processing. They also need to consider the ergonomics of VR headsets and other equipment to ensure that the user is comfortable during extended use.



Hardware and software development are also crucial for Virtual Reality. Engineers need to have a good understanding of hardware, including the various VR headsets and sensors, and the software development for VR applications. They need to be familiar with the programming languages and tools that are used to create VR experiences, such as Unity, Unreal Engine, and WebVR.

Networking and cloud computing are also important for Virtual Reality as these experiences are often delivered over the internet. Engineers need to understand how to optimize network performance and use cloud computing to deliver VR content.



In addition, Artificial intelligence and machine learning are being increasingly used in VR to create more interactive and dynamic experiences. Engineers need to have knowledge of these technologies to incorporate them in VR.

Overall, VR is a multidisciplinary field that requires knowledge and skills in various areas of computer science engineering, including computer graphics, human-computer interaction, software development, networking, and artificial intelligence.

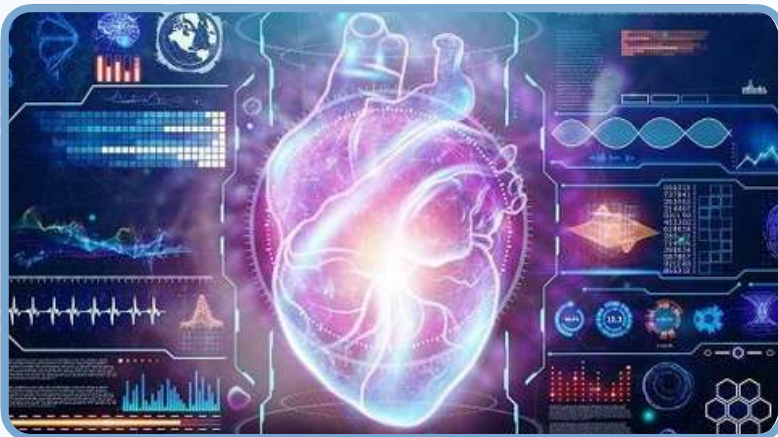


# NEW AI CAN AUTOMATICALLY DETECT A SERIOUS HEART CONDITION



Mohd Faaziz (batch 2021-25)

Using intravascular optical coherence tomography images, a new technique made it easier to identify plaque erosion. Researchers have created a brand-new artificial intelligence (AI) technique that uses optical coherence tomography (OCT) images to automatically detect plaque erosion in the arteries of the heart. Monitoring arterial plaque is crucial because, if it disintegrates, it may obstruct blood flow to the heart, triggering a heart attack or other dangerous problems.



“If cholesterol plaque lining arteries erodes it can lead to a sudden reduction in blood flow to the heart known as acute coronary syndrome, which requires urgent treatment”. “Our new method could help improve the clinical diagnosis of plaque erosion and be used to develop new treatments for patients with heart disease.”

# SCOPE OF TECHNOCRATS IN BLOCKCHAIN TECHNOLOGY



Satyam Agrahari (batch 2020-24)

Blockchain technologists handle the development, design, and implementation of blockchain-based systems and applications. They work on creating decentralized platforms and solutions that uses across various industries, such as finance, supply chain management, and digital identity verification. These technologists handle the code that runs the blockchain network, including designing, testing, and maintaining the code. They also work on creating smart contracts and other blockchain-based applications.

Besides development and implementation, blockchain technologists also play a vital role in the research and development of new blockchain-based solutions. They explore new use cases, identify opportunities for innovation, and evaluate emerging technologies.

This includes identifying new ways to apply blockchain technology to solve real-world problems, researching new blockchain platforms and exploring new technologies that can be integrated with blockchain. They also ensure that the blockchain networks and applications are secure, perform, and comply with regulatory requirements.



# IMPACT OF WEB 3.0



Gagan Tomar (batch 2021-25)

Web 3, also known as the decentralized web, is the next generation of the internet that promises to bring greater transparency, security, and autonomy to online interactions. Works on blockchain technology, which enables the creation of decentralized applications (dApps) that can run without a central authority.



One of the key impacts of Web 3 is the democratization of the internet. A small group powerful companies control traditional web 2 applications such as social media platforms and search engines. These companies have the power to censor content, collect and monetize user data, and control access to information.



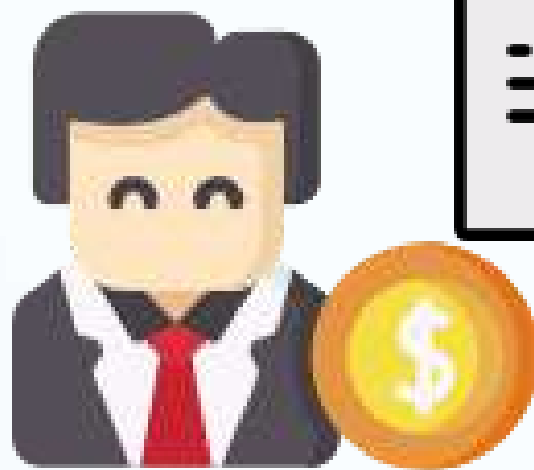
In contrast, Web 3 applications are decentralise and run on a network of computers, making them more resistant to censorship and control.

Another impact of Web 3 is the potential for increased privacy and security. Blockchain technology allows for the creation of decentralized identity systems where users have control over their own personal data and can choose to share it with whomever they want. This can reduce the risk of data breaches and identity theft. Web 3 also enables new forms of digital ownership, such as non-fungible tokens (NFTs), can represent to represent digital assets like artwork and collectibles.



Web 3 also has the potential to create new economic opportunities. Decentralized finance (DeFi) applications, for example, allow for the creation of decentralized lending and borrowing platforms and the creation of new types of financial instruments. This can increase access to financial services for individuals and small businesses in under-banked areas.

In conclusion, Web 3 represents a significant shift in how the internet operates; it has the potential to democratise the internet, increase privacy and security, and create new economic opportunities. However, it is important to note that Web3 is still in its infancy, and it's yet to be seen if it will reach its full potential. The technology and infrastructure still need to be developed further and widely adopted for these benefits to be fully realid.



# PLACEMENTS & INTERNSHIPS

# 190

## STUDENTS PLACED

### Amazon

2

Atharv Jairath  
Shruti Jain

Rs. 12 LPA  
Rs. 110,000  
(Stipend)

### BlinkIT

1

Devanshi Sharma

Rs. 6 LPA

### DeltaX

1

Hitesh Mishra

Rs. 7 LPA

### Josh Technology

6

Hitesh Mishra  
Manas Shekhar

Rs. 17.40 LPA  
Rs. 17.40 LPA

### Tejas Networks Ltd.

1

Shubham Jain

Rs. 10 LPA

### Freecharge

4

Archit Garg  
Devansh Chopra

Pooja Jindal  
Yash Gupta

Rs. 9 LPA  
Rs. 9 LPA



**GreyB**

Utkarsh Singh

1

Rs. 7 LPA

**Sopra Banking Software India**

Devansh Chopra

Isha Nailwal

Neeraj Gupta

Shubham Jain

Saksham Jain

5

Rs. 8.50 LPA

Rs. 8.50 LPA

Rs. 8.50 LPA

**Infosys**

13

Rs. 8 LPA

**Magic EdTech**

4

Sumit Negi

Rs. 9 LPA

**Rooter Sports Technologies**

1

Hardik Mittal

Rs. 8 LPA

**HSBC**

1

Tiksha Varshney

Rs. 9 LPA

**TNT Data Science**

1

Saiyyad Haider Ali

Rs. 9.2 LPA

**XenonStack**

6

Rs. 7.5 LPA

**TCS**

30

Rs. 8 LPA

**Tech Mahindra**

20

Rs. 10 LPA

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