



INTEGRAL UNIVERSITY



2022-2023

Volume III

NEWSLETTER

DEPARTMENT OF COMPUTER
SCIENCE AND ENGINEERING

INTEGRAL UNIVERSITY

ACADEMIC BLOCK B

Upcoming Events

Online Training & Certification:
Microsoft Azure Fundamentals AZ-900
& Cybersecurity/ Data Analyst (IT
Specialist).

Click the Link below:

https://drive.google.com/file/d/1ahu21Ae9sXwgWa_a6gNoDQshLma0iZ5m/view?usp=sharing

About Computer Science and Engineering

Established in September 1998, the Department of Computer Science & Engineering offers 05 undergraduate, 02 postgraduate, and 01 PhD programs. Equipped with cutting-edge hardware and software, its computer labs are fully networked and internet-connected. The faculty actively engages in Research and Development, focusing on emerging fields like Software Engineering, Cloud Computing, Computer Networks, Digital Image Processing, Soft Computing, Big Data, and AI. Comprising highly qualified and dynamic members educated from prestigious institutes, the department emphasizes innovation and advancement in the realm of Computer Science & Engineering.



Faculty of CSE

To produce highly skilled personnel who are empowered enough to transform the society by their education, research and innovations.

VISION AND MISSION

To offer diverse academic programs at undergraduate, postgraduate, and doctorate levels that are in line with the current trends in Computer Science and Engineering.

To provide the state of the art infrastructure for teaching, learning and research.

To facilitate collaborations with other universities, industry and research labs.

MESSAGE FROM HEAD OF THE DEPARTMENT, COMPUTER SCIENCE AND ENGINEERING

Empowering minds, innovating futures – where excellence in education meets the forefront of technological evolution.

Over the years, the dept. have made significant strides in both academic and research endeavors, contributing to the ever-evolving field of Computer Science. Our commitment to excellence is reflected in the well-equipped computer labs that boast state-of-the-art hardware and software, facilitating a conducive learning environment for all.



Adapting to the swiftly evolving technological landscape, every laboratory, staff room, and office within the department is comprehensively networked and internet-connected ensuring seamless access to information and resources for both faculty and students alike. The department is currently focusing its research efforts on emerging areas such as Software Engineering and Cloud Computing, Computer Networks and Security, Digital Image Processing, Soft Computing, Big Data, and Artificial Intelligence. We take pride in emphasizing our best practices, including the establishment of student clubs and a commitment to incorporating Sustainable Development Goals (SDGs) into our course designs. These initiatives have significantly contributed in adding values to our educational programs.

MRS. KAVITA AGRAWAL

FROM THE EDITOR'S DESK

"Reflecting on the myriad of events that shaped the 2022-2023 academic session for the Department of Computer Science and Engineering, we find inspiration in Ralph Waldo Emerson's words: '**Do not go where the path may lead, go instead where there is no path and leave a trail.**' From technical symposiums to cultural extravaganzas, sports competitions to interactive alumni visits, each endeavor has forged new paths, expanded horizons, and left an indelible mark on our collective journey. As we celebrate the diversity of experiences and achievements, let us continue to embrace innovation, collaboration, and the spirit of exploration in shaping the future of technology and engineering."



**MS. ANUM KAMAL,
EDITOR,
DEPARTMENT OF
COMPUTER SCIENCE AND
ENGINEERING**

MESSAGE OF CHIEF EDITOR



In the ever-evolving world of academia, staying updated isn't just a decision; it's a necessity. As the Chief Editor of the Department of Computer Science and Engineering Newsletter at Integral University, I am delighted to invite you to our platform, reflecting the spirit of our thriving academic community.

Within the pages of our newsletter, you'll discover a rich tapestry of highlights spanning from technical events showcasing the latest advancements to cultural celebrations fostering unity and diversity. Our sports events embody sportsmanship and camaraderie, while workshops, seminars, and guest lectures offer insights from industry leaders and academic experts.

Our newsletter is more than just a publication; it symbolizes our collective journey toward excellence. It reflects our shared vision of utilizing education's power to shape a brighter future.

We appreciate your trust in us. Let's join hands in nurturing the ethos of curiosity, creativity, and inclusiveness together.

Ms. Roshan Jahan
Assistant Professor,
Department of Computer Science and Engineering



Inspiring Alumni Visit

Ms. Naghma Tabassum, a proud alumna of the 2014 B.Tech. I.T. Batch, graced her alma mater with a visit that exuded inspiration and accomplishments. Her recent achievement of securing the 52nd rank in the Bihar Public Service Commission added an extra layer of distinction to her profile.

Alumni Interaction Program of Ms. Saltanat Praween



The Alumni Welfare Association of Integral University invites the Distinguish Alumni from time to time to interact with their undergraduate peers to guide them on the best career choices. In this series, we've invited Ms. Saltanat Praween, a 2016 B. Tech. CSE graduate who secured the sixth rank in the UPPSC 2022 and is currently designated as deputy collector, she accepted the invitation to interact with Integral University students on April 15, 2023



TECHNICAL HIGHLIGHTS



CHATGPT, THE LATEST ADVANCE IN AI: WHAT IT IS AND WHY IT IS CAUSING BOTH EXCITEMENT AND APPREHENSION

Tech Club, Department of Computer Science and Engineering, Integral University, Lucknow organized an Expert Lecture on "ChatGPT, the Latest Advance in AI: What it is and why it is causing both excitement and apprehension" on 16th May 2023. The lecture took place in Hall-1 Central Auditorium and was graced by the presence of Dr. Nadeem Akhtar, Pro-Chancellor, Integral University, Lucknow. Renowned speaker Prof. Somenath Biswas, former professor of IIT Kanpur, delivered an enlightening presentation on ChatGPT and its impact on the field of AI. He began by providing a comprehensive overview of ChatGPT, a state-of-the-art AI technology based on OpenAI's GPT-3.5 architecture. Prof. Biswas emphasized ChatGPT's ability to generate human-like responses and engage in meaningful conversations, highlighting the reasons behind both excitement and apprehension surrounding this advanced AI model.

RECENT TRENDS IN INDUSTRIAL AND SCIENTIFIC PROGRESS

On December 3rd, 2022, the Technical Committee of Integral University, Lucknow organized a national seminar on "Recent Trends In Industrial and Scientific Progress" to educate students about emerging technologies and the necessary skills to succeed in those fields. The seminar featured guest speakers from various IT sectors and companies.



GREEN CORNER AT HOME

Departmental Student Welfare Committee of Computer Science and Engineering organized an extension activity on the theme "Green Corner At Home" on April 25th, 2022. Around 30 participants from the Department of Computer Science participated in the event. The students showcased their creativity for plantation in the event and participated with full zeal and enthusiasm making the event a success. Out of 30 participants the best two entries were selected as the winner by the panel of judges. The event was conducted under the supervision of Ms. Kavita Agarwal, Head-Department of CSE, Integral University.



Trinity Gaming: Next Level

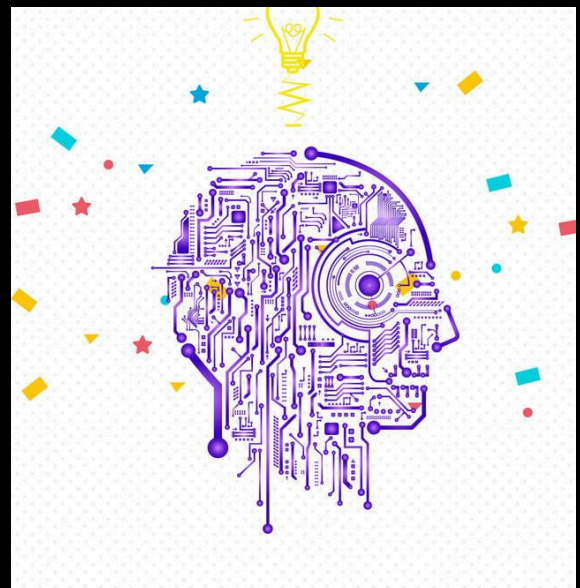
The Office of Dean, Students' Welfare and Department of Computer Science & Engineering, Integral University, Lucknow hosted 'Next Level'- a gaming event organized by Trinity Gaming on December, 1st, 2022 at Integral University Lucknow.

Digital Literacy in Village



To Strengthen one's confidence to face the audience and to develop awareness about our surroundings and daily happenings, students of Computer Science & Engineering organized "Digital Literacy in Village" at the village of Ambedkar Basti, Bhakamau, On April 26, 2023. Thirty-two students enrolled in the digital awareness session facilitated by Social Responsibility Club, Department of Computer Science and Engineering.

Xquizite 2022



The competitive exams preparation committee (CEPC) of the Department of Computer Science & Engineering in association with the Code Club organized a quiz contest on 26th September 2022 to prepare students for the various competitive exams like GATE, UPSC and PSUs. The topic of the quiz was "DATA STRUCTURE AND ALGORITHM WITH C LANGUAGE". This was MCQs based quiz competition.



APTITUDE & REASONING BASED ON DEDICATE COMPANY PATTERNS

The Tech Club and Placement Committee of the Department of Computer Science Engineering of Integral University, Lucknow organized a one-day guest lecture on “Best strategies to crack aptitude test of MNCs like(Wipro, TCS, Infosys, HCL), etc” on September 23, 2022, at NLT-14 of NLT Building. This session was organized for the final year students to make them aware of ‘The pattern of preparation’, ‘cracking exams’ & ‘importance of time-saving approaches’.



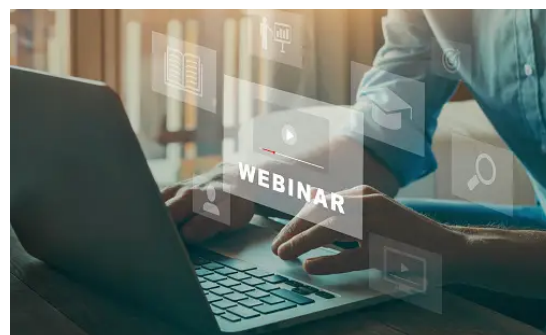
CYBER SECURITY AWARENESS AND ITS EMERGING TRENDS

The Tech Club of the Department of Computer Science & Engineering of Integral University Lucknow, had organised a workshop on “Cyber Security Awareness and Its Emerging trends” on 10th November 2022, at Hall-1, Central Auditorium. Dr. Satyendra Kumar Singh, Member Management Committee, ICSS, Dr. Rajendra S. Nehra, President, ICSS, Mr. Vijay Kumar, Vice-President, ICSS, and Ms. Shilpi Sharma, Sr. Manager HR and Operations, ICSS were the Guest Speakers.



PYTHON- IMPORTANCE, APPLICATIONS AND FUTURE SCOPE

The IT industry is dominating, and the one with the most expertise will lead a prosperous life. The Department of Computer Science & Engineering, University Polytechnic in collaboration with Softflew Technologies and Training Institute, a sister concern company of Skyview Smart Solutions, Lucknow, organized a Workshop cum Guest Lecture on “Python- Importance, Applications And Future Scope” on 2nd March, 2023 for all the students of Computer Science & Engineering and the interested students and faculty members of Diploma in Engineering to make them familiar with the current advancements and technologies.



SUMMER TRAINING & SCHOLARSHIP TEST ON IBM PROJECTS – 2023

The Tech Club of the Department of Computer Science and Engineering, Integral University, Lucknow, organized a webinar titled “Summer Training & Scholarship Test on IBM Projects – 2023”. The session conducted by Mr. Aman Bakshi from IBM, took place on May 18th, 2023, at 11:30 a.m. The purpose of the webinar was to provide students with insights into IBM projects, offering training opportunities, and inform them about the scholarship test.

CULTURAL SHOWCASE

>>> ART & CULTURAL CLUB AND TECH CLUB FEEL THE REEL

The Tech Club and Art & Cultural Club of the Department of Computer Science and Engineering, Integral University, Lucknow organized an event 'Feel the Reel' on November 21, 2022. Both clubs collaborated for this event to bring out the creative skills of students through a reel-making competition..

Fifteen students participated in this event and presented their reels to the audience and the judges.

The participants made reels of 15 to 30 seconds and effortlessly managed to keep the audience energetic and cheerful. The audience sang along as the reels had soothing background music/songs.

The judges of the event Ms. Roshan Jahan, Ms. Huma Iqbal and Mr. Anwar Ahmed Sheikh thoroughly enjoyed the event and also advised the students to perform consistently in the events along with their studies.



>>> NUKKAD NATAK : "AWARENESS FOR SAVING OZONE LAYER"

Art & Cultural Club (Active Mind)

The Art & Cultural Club of the Department of Computer Science and Engineering, Integral University Lucknow in collaboration with the SWC organised a Nukkad Natak (Street Play) on the topic "Awareness for saving ozone layer" on September 26, 2022 on the occasion of World Environmental Health Day. It was performed by the students of Art & Cultural Club in the University's main campus in front of NLT Block. The purpose of Nukkad Natak was to generate awareness among the students about ozone layer depletion, its harmful effects and solutions.

SKIT: "AWARENESS ON PROTECTION FROM DENGUE" <<<

Social Responsibility Club

To bring out the acting talent and to spread awareness, the Social Responsibility Club of the Department of Computer Science and Engineering, Integral University Lucknow organized a SKIT on the topic "Awareness on Protection from Dengue" on November 23, 2022. Venue of the event was in front of NLT Block. A total of 10 participants had taken part in this event.



>>> SINGING COMPETITION ART AND CULTURAL CLUB

The Art & Cultural Club with the Student Welfare committee of the Department of Computer Science and Engineering, Integral University Lucknow organised a "Singing Competition" on November 09, 2022, at Hall 3 of Central Auditorium.

Music is the greatest communication in the world. Even if people don't understand the language you're singing in, they still know good music when they hear it. To promote singing talent we provided a stage for the students of the CSE Department who are keen to show their singing talent. The students were eager to participate in the competition. The Competition began at 12:00 P.M. & concluded at 01:30 P.M. The participants were judged impartially by the judges Mrs Nudrat Fatima, Mrs Aqsa Fatima and Mohd Zubair. The participants were judged on their melody, expression, showmanship and tone quality. It was a tough contest and even the judges found it difficult to decide the winners.





“Badminton Tournament M/W 2022” (SPORTS CLUB)

The Sports Club of the Department of Computer Science & Engineering, Integral University, Lucknow, conducted a badminton tournament for Boy's and Girl's. On October 13, 2022, at the badminton court in academic Block I,

Under the direction of Dr. Mohammad Suaib (faculty adviser) and in the presence of Insha Khan, Mohd Ibrahim Khan, and Mohd Laraib Khan, student coordinators of the Sports Club, the game started at 12:20pm for Girl's and at 4:00pm for Boy's.

A total of 30 students participated, with 7 Girls and 23 Boys.

VALUE-ADDED COURSE ON JAVA FOR BEGINNERS (CSV-22-01)

1-10-2022 TO 31-10-2022

The DQAC, Department of Computer Science & Engineering, Integral University, Lucknow organized an online value-added course on "Java for Beginners (CSV-22-01)" from 1-10-2022 to 31-10-2022 for students of 1st year B.Tech. CSE/ CTIS/ CCAI/ DSAI. The two-week value-added course, with 30 hours of active engagement was organized from 1-10-2022 to 31-10-2022 in online mode on ili.

The online 30-hours value-added course was organized by DQAC, Department of Computer Sc. & Engineering under the able guidance of Ms. Kavita Agrawal, Head, Department of CSE, Integral University, Lucknow. The overall event was well-coordinated by Dr. Halima Sadia, Assistant Professor, Department of CSE, Integral University, Lucknow.

A total of 138 students registered for the event and received a certificate of completion.

VALUE ADDED COURSE ON INTERNET OF THINGS (RUN-1) CSV-22-05

15-07-2022 TO 01-08-2022

The DQAC, Department of Computer Science & Engineering, Integral University, Lucknow organized an online value-added course on 'Internet of Things' for the students of B.Tech., M.Tech., BCA, MCA, BSc. PMC, and Diploma in Engg. The two-week value-added course, with 30-hours of active engagement, was organized from 15th July 2022 to 1st August 2022 in online mode on ili.

The online 30-hours value-added course was organized by DQAC, Department of Computer Sc. & Engineering under the able guidance of Ms. Kavita Agrawal, Head, Department of CSE, Integral University, Lucknow. The course structure and module description were designed by Dr. Shish Ahmad, Associate Professor, Department of CSE, Integral University, Lucknow. The overall event was well-coordinated by Dr. Halima Sadia, Assistant Professor, Department of CSE, Integral University, Lucknow. Special thanks to Ms. Saleha Mariyam for managing the sessions.

Hands-on training sessions were delivered on Arduino, OS installation on Raspberry PI, Python Programming with Raspberry PI, LED Blinking & Brightness Control of LED using PWM, Interfacing IR sensor & Temperature and Humidity monitoring. The students will be able to design & develop IOT Devices.

A total of 104 students registered for the event and received certificates of completion.



"Brain tumor Detection using fMRI Images"
Project completed under DAAD-RISE fellowship
program run by Germany, 2022.

Ms. Roshan Jahan & Léna Petit

Göttingen - Georg-August-Universität Göttingen, Germany

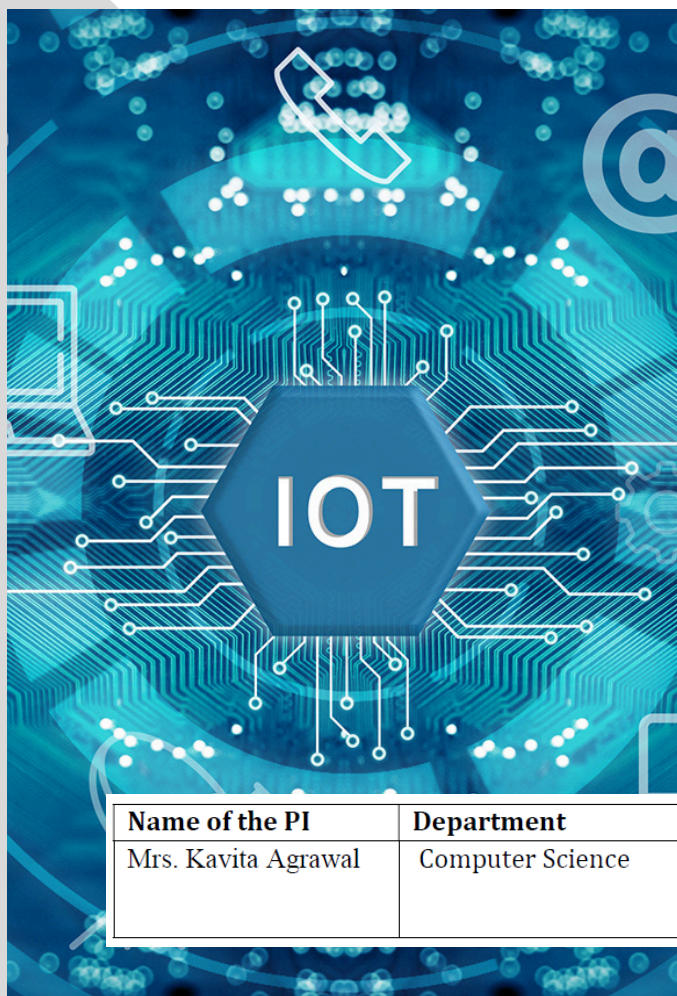
fMRI (Functional magnetic resonance imaging) measures the small changes in blood flow that occur with brain activity. It may be used to examine which parts of the brain are handling critical functions, evaluate the effects of stroke or other disease, or to guide brain treatment. The research of Ms. Roshan Jahan with Léna Petit, Göttingen - Georg-August-Universität Göttingen, Germany, who is at Integral, under DAAD RISE worldwide research internship program, has developed Algorithm to identify brain tumor in the digital image obtained by fMRI.



Ms. Roshan Jahan & Léna Petit

Göttingen - Georg-August-Universität Göttingen, Germany
Under DAAD RISE worldwide research Internship program 2022

A regress testing has been done to test the reliability of the algorithm and found it 98.47% efficient.



SEED MONEY GRANT FOR RESEARCH TO MRS. KAVITA AGRAWAL, HEAD OF COMPUTER SCIENCE AND ENGINEERING.

Seed Money Project titled 'Sustainable approach to energy consumption monitoring system using instant messaging (Io-T-based project)', has been sanctioned to the Department of Computer Science and engineering in 2023 with the amount of 2,50,000.

Name of the PI	Department	Project Title	Amount
Mrs. Kavita Agrawal	Computer Science	Sustainable approach to energy consumption monitoring system using instant messaging (Io-T-based project)	250000

SEED MONEY GRANT FOR RESEARCH TO DR. MOHD. AKBAR, ASSOCIATE PROFESSOR, DEPT. OF COMPUTER SCIENCE AND ENGINEERING

Seed Money Project titled 'Safety Mechanism to Detect and prevent the Drowning Object in Deep Water Zone in Accidental Prone Area using AI and ML', has been sanctioned to the Department of Computer Science and engineering in 2023 with the amount of 1,70,000.



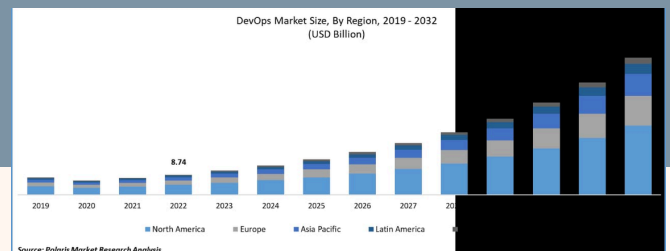
Name of the PI	Department	Project Title	Amount
Dr. Mohd. Akbar	Computer Science	Safety Mechanism to Detect and prevent the Drowning Object in Deep Water Zone in Accidental Prone Area using AI and ML	170000

STUDENTS REPORT

TECH TRENDS & EVENTS

The Evolution of Software Development: DevOps Integration

DevOps is an approach to software development that combines software development (Dev) and IT operations (Ops). The goal of DevOps is to increase the speed and frequency of software releases while also improving the stability and reliability of those releases. To achieve this, DevOps teams typically use automation, continuous integration and delivery, and monitoring tools to make the software development process more efficient and effective. In a nutshell, DevOps aims to bridge the gap between software developers and IT operations teams to create a more streamlined and collaborative software development process.



DevOps influences the application lifecycle throughout its plan, develop, deliver, and operate phases. Each phase relies on the others, and the phases are not role-specific. In a true DevOps culture, each role is involved in each phase to some extent.

The global devops market was valued at USD 10.5 billion in 2023 and is expected to grow at a CAGR of 21.20% during the forecast period.

-Md Arfakshad
1st Year, CSE B



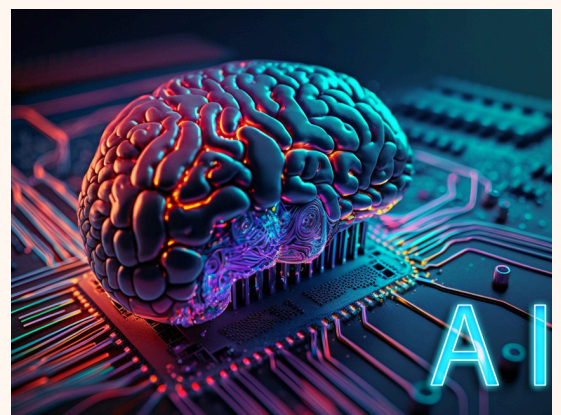
“Chatbots!, Artificial assistant”

OpenAI an artificial intelligence research company(US) developed a revolutionary chatbot named ChatGPT and launched on November 2022, GPT (Generative Pretrained transformer) that is ChatGPT uses deep learning, a subset of machine learning, to produce humanlike text through transformer neural networks. The transformer predicts texts including the next word, sentence or paragraph based on its training data's typical sequence.

It's use can revolutionize the research industries and it's more of a substitute of the search engines, it has been launched with the GPT version 3.0 which is limited to the information till 2021 and may sometimes generate wrong information

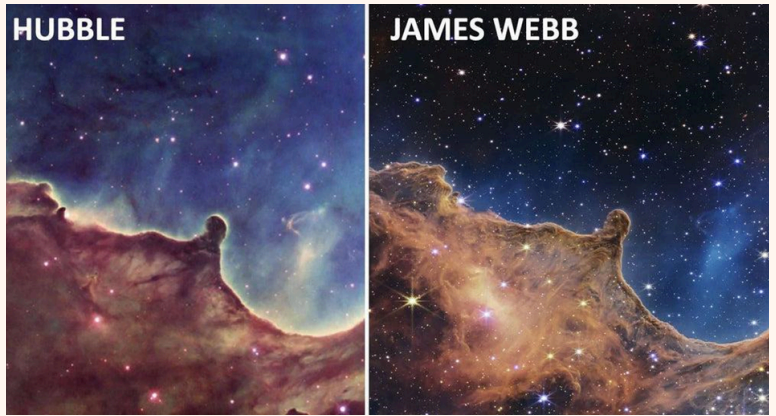
The launch of ChatGPT signifies a milestone in conversational AI, promising enhanced interactions and innovation. Its advanced capabilities offers personalized assistance and engagement, shaping the future of human-computer interaction.

-Mohammad Avaish Khan
1st Year, CSE B



Cosmic Revelation

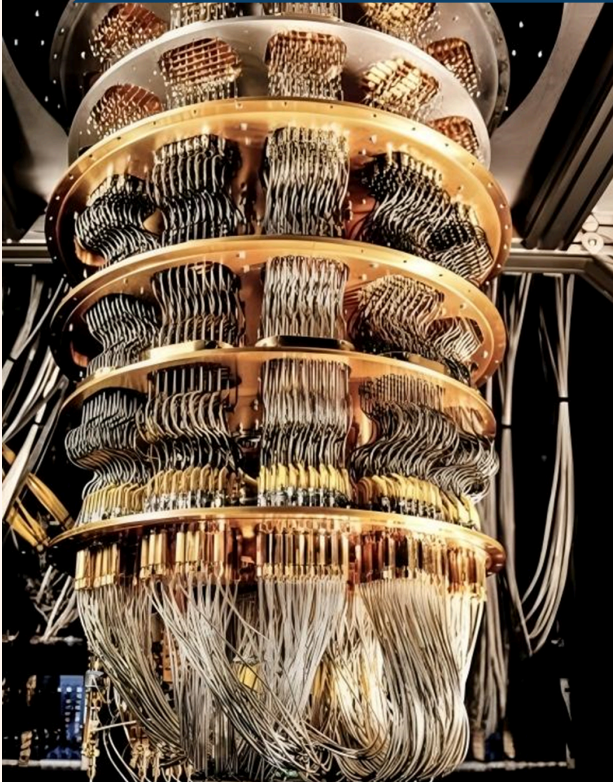
Launched in December 2021, NASA's \$10 billion James Webb Space Telescope is the largest ever sent to space, boasting infrared detection capabilities that allow it to peer far back in time to the universe's earliest moments. With a 21-foot main mirror and a tennis court-sized sunshield, it unfolds in space to begin its mission, positioned 1.5 million kilometers from Earth. Its primary aim is to unravel the mysteries of the universe's infancy, while also promising groundbreaking discoveries in areas such as exoplanet atmospheres, celestial imagery, and galactic structure. With an expected lifespan exceeding 20 years, JWST is poised to continually expand humanity's understanding of the cosmos.



Astronomers anticipate JWST's unparalleled potential to uncover the origins of the universe's first galaxies, alongside its broader scope in revolutionizing various fields within astronomy. From dissecting exoplanet atmospheres to capturing stunning images of cosmic phenomena, the telescope promises a continuous stream of new findings throughout its operational lifetime, promising to reshape our understanding of the cosmos for decades to come.

-Mohammad Atif
1st Year, CSE

"Breakthrough in Quantum Computing Sets New Milestone for IT Industry"



Researchers at Massachusetts Institute of Technology (MIT) announced a significant breakthrough in quantum computing, achieving quantum supremacy by demonstrating the ability to perform a calculation at the rate of 1 trillion calculation per second that would be practically impossible for modern era's classical computers. This milestone not only highlights the great potential of quantum computing but also enlightens the way for solving complex computational problems in fields such as cryptography, optimization, and machine learning. The breakthrough sparks renewed enthusiasm and investment in quantum computing research and development, positioning it as a transformative force in the IT industry for years to come.

-Md Saad Bin Rizvi
1st Year, CSE



FORGET BLOCKCHAINS, EMBRACE BRAINWAVES: AI CREATES ART ON DEMAND WITH MIDJOURNEY!

Have you ever dreamt of an AI that could write a sonnet or paint a masterpiece? Well, dream no more! Generative AI, the hottest trend in artificial intelligence, is making waves by creating entirely new content – text, images, music, and anything your imagination can conjure.

Imagine feeding an AI artist like Midjourney a simple prompt like "a cat riding a motorcycle on Mars at sunset." Moments later, it delivers a stunningly realistic image, complete with details you never even considered. When you provide a text prompt, these algorithms sift through the data, identifying patterns and connections. They then use these patterns to generate a completely original image that aligns with your prompt and artistic style preferences.

But with great power comes great responsibility. Generative AI's potential for bias and misinformation demands careful attention. As it matures, responsible development is key to unlocking a future of harmonious human-AI creativity.

–Fraz Ahmad Haidry
1st year

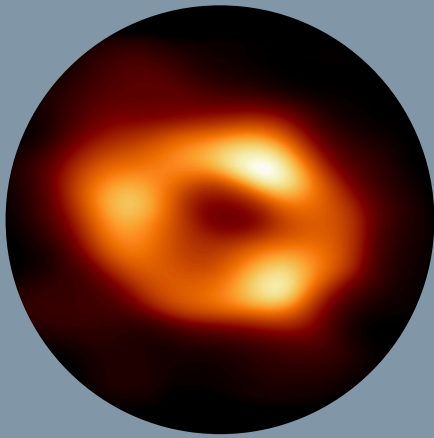
FULL STACK DEVELOPMENT

Full Stack Development refers to the development of both front-end and back-end development of web application. It was the one of the trending technologies in 2022.

It has the ability to design complete web applications and websites. They work on the frontend, backend, database and debugging of web applications or websites. IT was lunched in early 2008, full stack web development as a term started gaining momentum and over the years it has come to become one of the most in-demand job roles of present times.

–Salman Ali
2nd Year, CSE

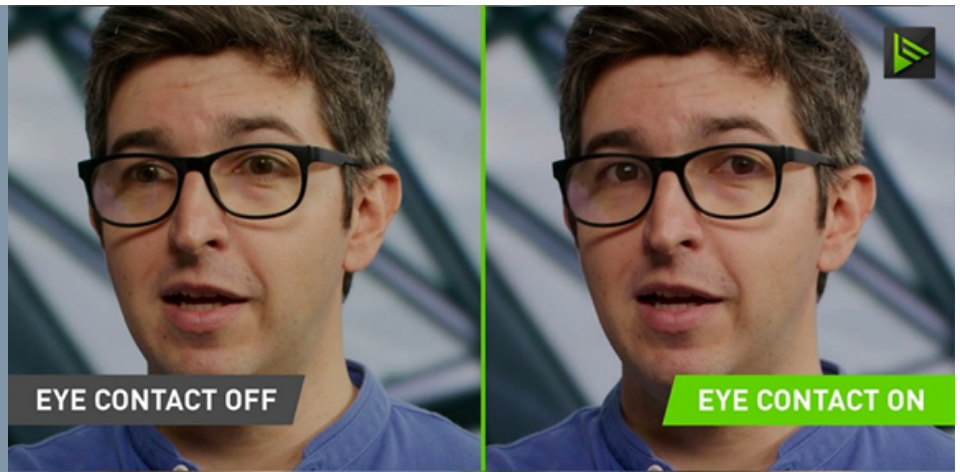




ASTRONOMERS SNAP FIRST-EVER IMAGE OF SUPERMASSIVE BLACK HOLE SAGITTARIUS A*

On May 12, 2022, the Event Horizon Telescope Collaboration released the first image of Sagittarius A*, confirming it as a black hole. This marks the second black hole image captured by EHT. The image depicts a bright ring of swirling gas around the black hole, heated to millions of degrees, with a dark central region representing the black hole's shadow where light cannot escape. The EHT, a global network of telescopes, synthesized the image by focusing on the galaxy's center, 27,000 light years away, overcoming atmospheric interference. The resulting image unveils Sagittarius A* as a glowing ring just outside the event horizon, formed by light bending due to the black hole's immense gravity.

-Mohtasham Faraz
3rd Year, CSE



NVIDIA MAXINE EYE CONTACT

Video conferencing has become a key part of how people work together post-pandemic. A key part of having an engaging communication is eye contact. However, maintaining eye contact during video conferencing is barely feasible. People would have to continuously switch between looking at the camera and looking at their screen. The longer the conference the more annoying this problem becomes. Nvidia launched a solution to this problem called NVIDIA Maxine Eye Contact. It uses AI to apply a filter to the camera's feed to redirect user's gaze toward the camera thus maintaining eye contact at all times. It is integrated into the NVIDIA Broadcast App - a free software download for NVIDIA RTX and GeForce RTX GPU owners.

-Mohammad Shoaib
3rd Year, CSE

US-CHINA TENSIONS IMPACTS THE SEMICONDUCTORS



The Biden-led US Government, echoing its predecessors, is concerned about China's escalating influence in the global market and its growing geopolitical power. In a bid to counteract this, they've implemented export restrictions on advanced semiconductors and associated technologies crucial for their production. Notably, these controls encompass semiconductors utilized in AI, including GPUs, TPUs, and other advanced ASICs, due to alleged concerns over China's military exploitation of artificial intelligence. This move has already impacted major US tech companies like Apple, Nvidia, and AMD, which previously collaborated with Chinese counterparts. Consequently, a worldwide chip shortage has ensued, affecting the availability of products such as laptops and mobile phones. The repercussions of these restrictions and China's potential response remain to be seen.

-Samad Kausar
3rd Year, CSE

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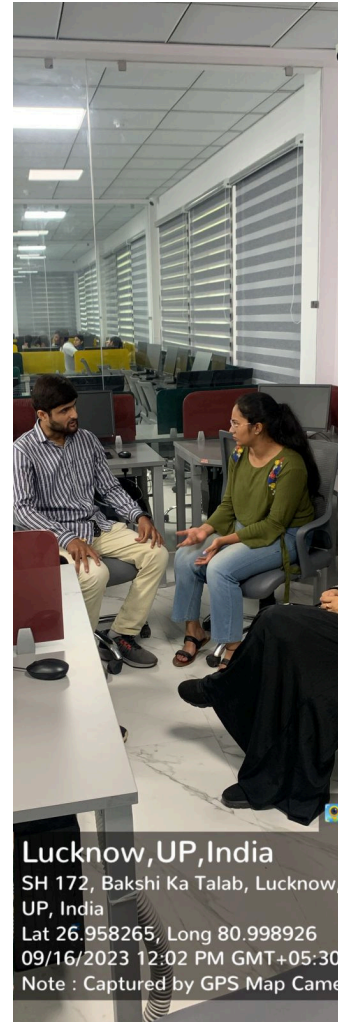
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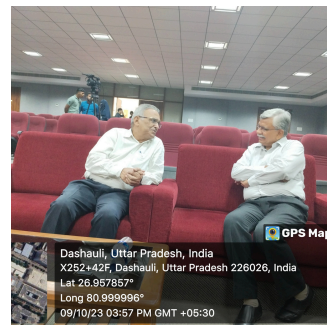
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Picture Gallery Department of Computer Science and Engineering







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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING, LUCKNOW

EDITOR-IN-CHIEF:

Ms. Roshan Jahan
Assistant Professor
roshan@iul.ac.in

EDITOR:

Ms. Anum Kamal
Research Scholar
anumkama@student.iul.ac.in