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ECHELON INSTITUTE OF TECHNOLOGY

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

TECHPULSE

Exploring Digital World 2024–25

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Ms. Ruchika Aggarwal
Associate Professor

INTRODUCTION

Welcome to the **Department of Computer Science and Engineering.**

The Department of Computer Science and Engineering is enriched with competent and well-qualified faculty members who strive to bring out the best in students. Since its inception, the department has consistently maintained a high growth pace, driven by a strong dedication to providing exceptional engineering education. The department boasts well-equipped laboratories with internet access, web application facilities available on LAN and Wi-Fi, providing students with hands-on experience on the latest software and technological tools used in industries. To prepare students as future software professionals, the department organizes seminars, corporate training, and workshops conducted by experts. Additionally, PDP classes are conducted to enhance their technical skills further. Many of our students have graduated through campus placements, securing positions in multiple organizations.

MESSAGE FROM HOD'S DESK

Dr. Manisha Vashisht
Professor & HOD

On behalf of the Computer Science and Engineering Department at Echelon Institute of Technology, I am honored to present this year's edition of our Technical Magazine. Building on the success of our previous publication, we continue our commitment to fostering knowledge exchange and showcasing cutting-edge research, innovations, and technological advancements in Computer Science, Engineering, and Technology.

This magazine serves as a dynamic platform for esteemed faculty members, researchers, industry experts, and students to share their valuable insights, discoveries, and technical contributions. The dedication and relentless efforts of our Editorial Team have ensured that this edition remains a source of inspiration and learning for all.

As we move forward, I am excited about the magazine's potential to evolve into a leading forum for high-impact research, innovative ideas, and transformative discussions. It is our collective ambition to drive innovation, push boundaries, and contribute meaningfully to the ever-evolving technological landscape.

I extend my heartfelt appreciation to the editorial board, faculty members, students, and industry professionals whose contributions and dedication have made this initiative a success. I am confident that this magazine will continue to inspire and facilitate groundbreaking research at both national and international levels.

> **An invitation to the culture of inspiration, exploration, invention & growth.**
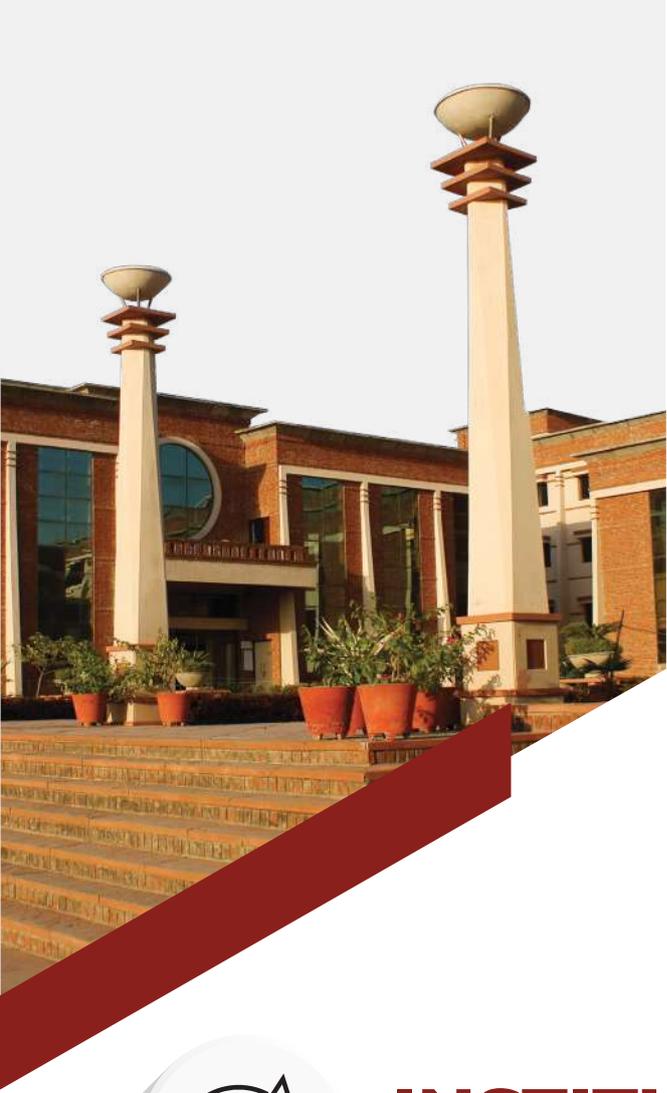
INSTITUTE VISION

"Technical and Management leaders engaged in the evolution of life, being at the frontiers of the continuous technological and administrative breakthroughs, inspired by ongoing exploration of self, society, and nature through self-reflective consciousness by building a culture of inspiration, exploration and growth."

INSTITUTE MISSION

M1 Having a culture of inspiration, exploration and invention through effective, experiential teaching-learning giving rise to ever evolving knowledge and wisdom.

M2 To have self-inspired students ever engaged in continually working upon and sharpening & deepening computational, creative, innovative and leadership consciousness.

M3 Having students established in self - reflective consciousness, committed to personal, social & human integrity an engaged in deep inquiry & conversation, giving rise to shared, inter-subjective human values & consciousness.

DEPARTMENT OF
COMPUTER SCIENCE & ENGINEERING

DEPARTMENT VISION

"To develop competent computer professionals who solve real-world problems through continuous learning and adaptive to rapid changes in computer science and engineering with ethical, social, and managerial capabilities."

DEPARTMENT MISSION

M1 To produce industry-ready professionals for successful careers in computer science and related domains.

M2 To provide exposure to cutting-edge computational tools in the field of computer science & engineering.

M3 To create competent and ethical computer professionals through quality education, innovative research, and exposure to entrepreneurship.

TECH NEWS

As we move further into 2025, technological advancements continue to reshape industries, pushing the boundaries of innovation and automation. From breakthroughs in AI and quantum computing to advancements in autonomous systems and sustainable tech, these developments highlight both the immense potential and the challenges of our digital future. With increasing debates on ethics, security, and the impact of automation, staying updated on these rapid shifts is more important than ever. Here's a look at some of the most significant tech news shaping the landscape from July 2024 to June 2025.

Nvidia's Jetson Thor: Advancing Humanoid Robotics

In late 2024, Nvidia announced the upcoming launch of its Jetson Thor computers, slated for release in the first half of 2025. This cutting-edge technology aims to enhance humanoid robotics by improving autonomy and human interaction. Jetson Thor builds upon Nvidia's existing Jetson platform, known for compact AI applications, positioning the company as a key technology provider in the robotics sector.
Collaborations with industry leaders like Siemens and Universal Robots underscore Nvidia's commitment to serving a diverse market of robot manufacturers.

Google's Quantum Leap with Willow Processor

In December 2024, Google unveiled its Willow quantum processor, a 105-qubit superconducting chip that achieved a remarkable milestone by performing a benchmark computation in under five minutes—a task that would take today's fastest supercomputers an estimated 10 septillion years. This advancement positions Google at the forefront of quantum computing research, aiming to solve complex problems beyond the reach of classical computers.

Embraer's Automatic Takeoff Technology Set for 2025

Embraer will introduce commercial jets with automatic takeoff in 2025. The E2 Enhanced Take Off System enhances precision, payload capacity, and pilot efficiency.

While some question increased automation, Embraer asserts it outperforms human pilots, ensuring safer and more consistent takeoffs. The company prioritizes safety, fuel efficiency, and emissions reduction.

Houston's Transportation Innovations in 2024

In 2024, Houston advanced transportation with projects like the "Whoosh" rail system and expanded driverless services from Cruise and Nuro. Aurora Innovation tested driverless semi-trucks, aiming to remove safety drivers by April 2025. Metro Transit ordered 100 electric coaches and expanded ride options, while GO Airport Shuttle launched services, enhancing mobility and sustainability.

Big Tech Faces Increased Scrutiny and Potential Decline

In 2025, big tech faces growing criticism over surveil-lancedriven models and AI's failure to deliver returns. The CrowdStrike outage intensified concerns, prompting interest in transparent, democratic tech alternatives. European initiatives, like Germany's Sovereign Tech Fund, support independent tech, signaling a shift toward publicfocused innovation.

Looking Ahead

As technology continues to evolve at a rapid pace, the coming year promises both groundbreaking innovations & critical challenges. From AI advancements & quantum computing breakthroughs to increased automation and sustainable tech solutions, industries are pushing boundaries like never before.

The rise of decentralized and transparent tech alternatives signals a shift towards more responsible innovation, prioritizing public benefit over corporate control. As we move forward, the balance between technological progress, ethical responsibility, and sustainability will shape the future, ensuring that innovation remains a force for good in an increasingly digital world.

> An institute of the students, for the students, by the students.

GADGET CORNER

List highlighting the latest and most intriguing gadgets, software, and books. Remember, the tech landscape evolves rapidly, so it's advisable to check the latest developments for the most current innovations.

Tech Gadgets

Samsung Galaxy Z Flip 6

Revolutionizing foldable technology, the Samsung Galaxy Z Flip 6 combines futuristic design with cutting-edge performance, making every flip a statement. Featuring a sleek design, upgraded cameras, and an immersive cover display for ultimate convenience.

Meta Quest 5

The Meta Quest 5 redefines virtual reality, offering unparalleled immersion with stunning graphics and cutting- edge technology in a sleek, all-in-one headset, empowers you to explore boundless virtual worlds with total freedom and ease.

DJI Mini 4 Pro

Precision in the air, perfection on the ground- DJI Mini Pro makes every shot count. The sky is no longer the limit, professional-quality aerial footage at your fingertips. Take off, explore, and capture the extraordinary.

Iphone 16 Pro Max

Engineered for peak performance, the iPhone 16 Pro Max is built to handle anything, from the everyday to the extraordinary. With an all-day battery, performance that never slows down, and a display that dazzles, the iPhone 16 Pro Max is designed for your ultimate lifestyle.

Software & Platforms

GPT-4o Mini by OpenAI

In July 2024, OpenAI introduced GPT-4o Mini, a compact yet powerful language model. Designed to surpass GPT-3.5 Turbo, this model excels in both textual intelligence and multimodal reasoning, supporting a wide range of languages.

Windows 11, Version 24H2

Microsoft released Windows 11, Version 24H2 in the second half of 2024. This update introduced several enhancements, including the ability to snooze or turn off the "Start backup" reminder in the File Explorer address bar.

Android 16

Google announced plans to release Android 16 in the second quarter of 2025, shifting from its traditional fall release schedule. Codenamed "Baklava," this version aims to align better with device launch schedules, enabling a broader range of devices to receive the update sooner.

Books
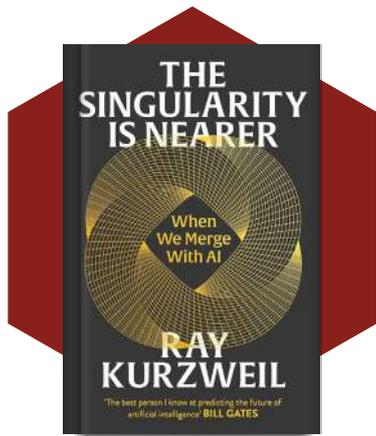
The Singularity Is Nearer

In this sequel to his 2005 bestseller, Ray Kurzweil delves deeper into the trajectory of artificial intelligence, reaffirming predictions that AI will reach human-level intelligence by 2029 and that humans will merge with machines by 2045.

The Technological Republic

In 'The Technological Republic,' Palantir CEO Alex Karp and journalist Matt Zamiska critique the current focus of tech companies on trivial pursuits. They advocate for a realignment of technological innovation to address significant societal challenges such as national defense, healthcare, and education.
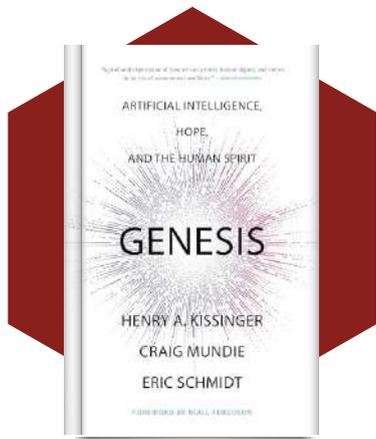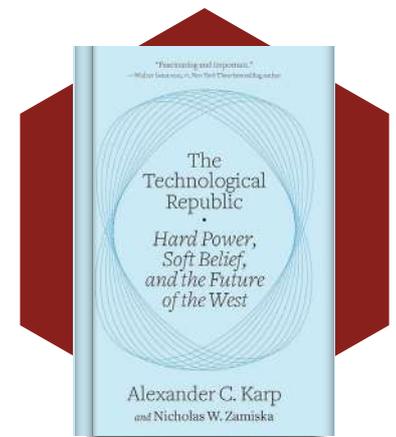
Genesis: AI's New Dawn

Authored by Henry Kissinger, Eric Schmidt, and Daniel Huttenlocher, 'Genesis: AI's New Dawn' delves into the transformative impact of artificial intelligence on global politics and society. The authors explore how AI is reshaping power structures, governance, and human interactions, offering insights into the challenges and opportunities presented by this technological revolution.

Final Thoughts

For tech-minded readers, staying abreast of the latest gadgets, software, and insightful literature is essential to understanding and participating in the rapidly evolving technological landscape. Whether you're interested in cutting-edge devices, transformative software, or thought -provoking reads, there's no shortage of materials to fuel your curiosity and inspire your next project.
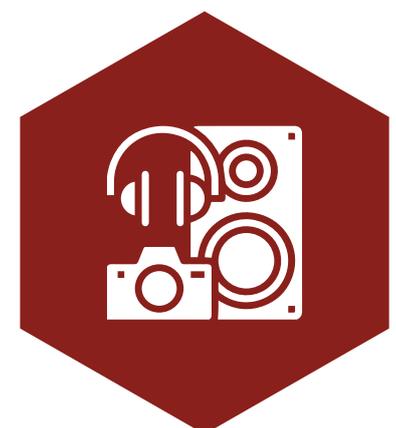
FACULTY LIST
CSE

S. No.	Faculty Name	Designation
01	Dr. Sudarshan Goswami	Professor
02	Dr. Vikesh Kumar	Professor
03	Dr. Rajesh Kumar Singh	Professor
04	Dr. Manisha Vashisht	Professor (HOD)
05	Dr. Rajeev Yadav	Professor
06	Dr. Stuti Saxena	Associate Professor
07	Dr. Pinky Yadav	Associate Professor
08	Ms. Shefali Madan	Associate Professor
09	Mr. Mohammad Danish	Associate Professor
10	Ms. Ruchika Aggarwal	Associate Professor
11	Ms. Tanya Chauhan	Assistant Professor
12	Ms. Sankeeta Jha	Assistant Professor
13	Mr. Ravi Kumar Sharma	Assistant Professor
14	Ms. Darshana	Assistant Professor
15	Ms. Richa	Assistant Professor
16	Ms. Laxmi	Assistant Professor
17	Ms. Tripti	Assistant Professor
18	Ms. Suman	Assistant Professor
19	Mr. Trilok Rawat	Assistant Professor
20	Ms. Shalu Sharma	Assistant Professor
21	Ms. Sudesh Kumari	Assistant Professor
22	Mr. Md. Bilal	Assistant Professor
23	Ms. Garima Kanaujiya	Assistant Professor
24	Ms. Priyanka Singh	Assistant Professor
25	Mr. Ashish	Assistant Professor

FIRST YEAR

S. No.	Faculty Name	Designation
01	Ms. Mahima	Associate Professor
02	Ms. Preeti	Assistant Professor

M.TECH

S. No.	Faculty Name	Designation
01	Ms. Swati Gupta	Assistant Professor
02	Mr. Ravi Singh Rana	Assistant Professor
03	Mr. Bhupendra	Assistant Professor

MOUs Signed

S. No.	Name of MOU
01	Defronix Cyber Security
02	Brainovision Solutions India Pvt. Ltd.
03	NIIT Foundation Cisco
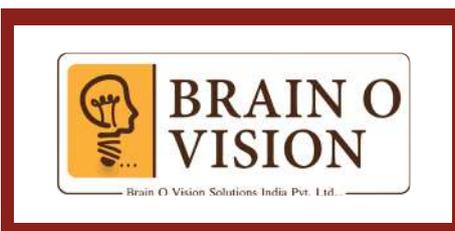
Training for Students

S. No.	List of Training	Event Type	Department	Mode
01	Motivational Session by Successful Innovator	Seminar	CSE	Offline
02	Netcoreinfo Institute of Training development Workshop	Training	CSE	Offline
03	Orientation Cum Workshop on Cyber security By CISCO	Seminar	CSE	Offline
04	Virutal Internship Program 2024 on enabling skillset of the future by CISCO	Seminar	CSE	Online
05	Infosys java developer Training Organised by ICT Academy	Training	CSE	Offline
06	Internal Hackathon	Competition	CSE	Offline
07	PALO ALTO Cloud Securtiy Fundamentals	FDP	All Faculties	Offline
08	Interactive Growth & New Ideas in Teaching Excellence with Python	FDP	All Faculties	Offline
09	BootCamp	Training	B.Tech 4th & 6th Sem	Offline
10	Applied AI: Practical Implementation	FDP	All Faculties	Online
11	IOT Standards	FDP	CSE	Offline
12	Salesforce	FDP	CSE	Offline
13	IBM Soft Skill Program	Boot camp	CSE 4th & 6th Sem	Offline
14	Aptitude & Reasoning	Training program	CSE 6th Sem	Offline

INNOVATIONS AT CAMPUS

Student Corner-Projects

Face Recognition Attendance System

ABSTRACT

Attendance management is an essential administrative task in educational institutions & organizations, but traditional methods often lack efficiency, accuracy, & scalability. To address these challenges, this research presents a Face Recognition Attendance System that automates attendance tracking using computer vision and machine learning techniques. The system is developed with OpenCV for real-time image processing, the Local Binary Pattern Histogram (LBPH) algorithm for face recognition, and MySQL for secure and structured attendance data storage. The paper details the end-toend development process, including data acquisition, image preprocessing, feature extraction, and face recognition workflows. The system was evaluated under varying conditions, including differences in lighting, facial orientations, and partial occlusion, achieving good accuracy and demonstrating robust performance in real-world scenarios. The system is user-friendly, requiring minimal manual intervention, and ensures secure data management for efficient attendance tracking. Compared to traditional attendance methods and existing biometric systems, the proposed solution offers faster processing, higher accuracy, and ease of deployment. Its practical applications include educational institutions, corporate offices, & events requiring efficient and secure attendance management. Challenges such as handling large datasets, varying user demographics, and environmental changes are discussed, and solutions to mitigate these issues are proposed. Future work aims to enhance the system by integrating deep learning models, enabling it to handle more complex scenarios like aging effects, expressions, and larger-scale deployments. Additionally, mobile and cloud-based extensions are planned to improve accessibility and scalability.

By: Yash, Hemant, Harsh Tongar
CSE, Echelon Institute of Technology

Yoom: Revolutionizing Communication In The Post-Pandemic World

ABSTRACT

The increasing reliance on remote communication has highlighted the critical role of video conferencing platforms in modern business, education, & social interaction. This paper provides a comprehensive analysis of video conferencing sites, focusing on their underlying technologies, core features, and evolution in response to user demands and technological advancements. We examine the architectural components of video conferencing systems, including real-time video and audio transmission, data encryption, scalability, and integration with other tools such as messaging, screen sharing, and virtual collaboration spaces. The study further delves into the challenges associated with video conferencing platforms, including latency issues, bandwidth limitations, security vulnerabilities, and user experience design. Additionally, we explore the impact of artificial intelligence, machine learning, and cloud computing in enhancing the functionality of video conferencing sites, such as through automated transcription, real-time translation, and intelligent meeting management. By providing a detailed comparison of popular video conferencing platforms, the paper aims to offer insights into best practices, potential areas for innovation, & future trends in the development of video communication technologies. Ultimately, this research aims to inform developers, businesses, and educators on how to effectively leverage video conferencing solutions to meet diverse communication needs.

By: Abhinandan, Gajendra, Jahnavi
CSE, Echelon Institute of Technology

Speech To Text Conversion And Sentiment Analysis On Speaker Specific Data

ABSTRACT

Sentiment analysis (SA) is a growing field with increasing applications in areas such as customer service, mental health, and virtual assistants. Most research in SA has focused on identifying polarities, such as positive, negative, or neutral sentiments, often using speech and audio recognition techniques. While this provides a basic understanding of sentiment, it lacks the depth required to capture specific emotions like joy, anger, sadness, or surprise.

In this research, we aim to go beyond sentiment polarities and work towards identifying the precise emotions expressed by speakers. By leveraging advanced algorithms, our approach not only improves the accuracy of emotion detection but also adds value by analyzing the subtleties of speech. Additionally, we address the challenge of distinguishing between multiple speakers in audio recordings. By implementing effective speaker discrimination techniques, our research provides a more comprehensive analysis of conversations involving multiple individuals. This combination of emotion detection and speaker discrimination enhances the scope of sentiment analysis, enabling applications in fields like social media analysis, call center monitoring, and therapy support systems. The integration of these advanced features can significantly improve the understanding of human communication and foster better interactions between humans and machines.

By: Aman Sharma, Himanshu, Pankaj
CSE, Echelon Institute of Technology

STUDENT CORNER-ARTICLES

Quantum Computing: The Future of Supercomputing

In the world of ever-evolving technology, quantum computing stands as one of the most groundbreaking advancements. Unlike traditional computers that rely on binary bits (0s & 1s), quantum computers use qubits, which can exist in multiple states simultaneously. This ability, known as superposition, along with entanglement, enables quantum computers to process complex calculations at unimaginable speeds.

The potential of quantum computing is vast. It can revolutionize fields like artificial intelligence, cryptography, drug discovery, and climate science. In finance, it can optimize stock market predictions, while in healthcare, it can help develop new drugs by simulating molecular interactions. The field of cybersecurity is also set for transformation, as quantum computing can both break and create highly secure encryption techniques.

Despite its promise, quantum computing faces several challenges, such as high costs, extreme cooling requirements, and complex hardware development. However, companies like Google, IBM, and Microsoft are making rapid progress, bringing us closer to a future where quantum computers become an integral part of solving real-world problems.

As research advances, quantum computing is no longer a distant dream but an emerging reality that could redefine the way we process information, making the impossible possible.

The Future of Quantum Computing

Tech giants like Google, IBM, Microsoft, & startups like D-Wave and Rigetti are making rapid advancements in quantum computing. Google's "Quantum Supremacy" experiment demonstrated that a quantum computer could solve a problem in seconds that would take classical computers thousands of years. With ongoing research and development, we are moving closer to a future where quantum computing becomes a mainstream technology.

In the coming decades, quantum computing could revolutionize industries, unlocking new possibilities that once seemed impossible. As we step into this new era of computing, one thing is certain—the quantum revolution has begun, and its impact will be felt across every aspect of our digital world.
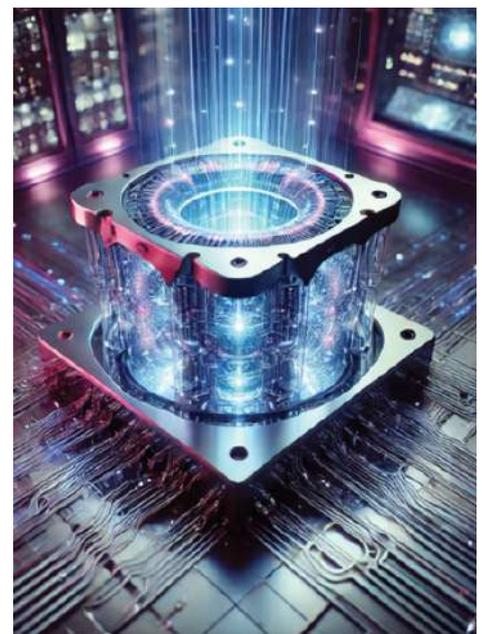
By: Sakshi Maithil
CSE, Echelon Institute of Technology

The Rise of Artificial Intelligence: Shaping the Future

Artificial Intelligence (AI) is no longer a futuristic concept—it is transforming industries and everyday life at an incredible pace. From voice assistants and self-driving cars to advanced medical diagnostics and automated trading, AI is revolutionizing how we interact with technology.

AI works by using machine learning and deep learning algorithms to analyze vast amounts of data, recognize patterns, and make decisions. It powers systems that can think, learn, and adapt without direct human intervention. Industries like healthcare, finance, and cybersecurity are already benefiting from AI's ability to process information faster and more efficiently than ever before.

However, AI also comes with challenges. Concerns over job automation, data privacy, and ethical biases raise questions about how AI should be developed and used responsibly. Despite these concerns, AI continues to advance, promising a future where machines not only assist but also enhance human capabilities in ways never imagined before.

As AI becomes more integrated into our daily lives, its impact extends beyond industries into personal experiences. Smart homes equipped with AI-powered devices can adjust lighting, temperature, and security based on user preferences, making life more convenient. In education, AI-driven tools personalize learning experiences, helping students grasp complex concepts at their own pace.

The entertainment industry is also embracing AI, with streaming platforms using recommendation algorithms to suggest content tailored to individual tastes. Even in creative fields like music and art, AI is being used to generate original compositions and paintings, pushing the boundaries of human creativity.

Despite these advancements, the ethical implications of AI remain a hot topic. The development of deepfake technology, biased decision-making in AI models, and concerns over mass surveillance highlight the need for strict regulations and responsible AI development. Governments and organizations worldwide are working to establish guidelines that ensure AI is used ethically and transparently.

By: Chhavi Baweja
CSE, Echelon Institute of Technology

The Internet of Things (IoT): Connecting Everything

The Internet of Things (IoT) is changing the way we interact with the world by connecting everyday objects to the internet. From smart homes & wearable devices to industrial automation & smart cities, IoT is making life more convenient and efficient.

IoT devices are equipped with sensors and connectivity features that allow them to collect and share data. This enables real-time monitoring, automation, and control across various sectors. For example, in healthcare, wearable devices track vital signs and send data to doctors for better patient care. In agriculture, IoT sensors help farmers monitor soil conditions and optimize irrigation.

While IoT offers numerous benefits, it also poses security risks. Cyberattacks and data breaches remain a significant concern, making it essential to implement strong encryption & cybersecurity measures. As IoT continues to evolve, it is set to create a more interconnected and intelligent world, improving efficiency and transforming industries globally.

Beyond its current applications, the Internet of Things (IoT) is paving the way for a smarter & more autonomous future. In transportation, IoT-enabled smart traffic systems can analyze real-time data to reduce congestion and enhance road safety. Connected vehicles can communicate with each other and traffic infrastructure, making autonomous driving safer & more efficient.

In the energy sector, IoT is driving the development of smart grids that optimize electricity distribution based on consumption patterns, reducing energy waste and promoting sustainability. Smart meters allow consumers to monitor their energy usage in real-time, leading to better resource management and lower costs.

Retail and supply chain industries are also experiencing a transformation through IoT. Smart shelves in stores can track inventory levels and automatically place orders when stocks run low, reducing manual efforts and ensuring seamless operations. In warehouses, IoT-connected robots streamline packaging and shipping, significantly improving logistics and efficiency.

However, as the IoT ecosystem grows, so does the need for robust regulations and security frameworks. With billions of connected devices generating massive amounts of data, ensuring privacy, data protection, and secure communication protocols is crucial. The future of IoT lies in balancing innovation with security, making sure that interconnected devices enhance lives without compromising safety.

By: Chaman Prakash Bhardwaj
CSE, Echelon Institute of Technology

The Evolution of Cyber Threats: What to Expect in 2025

As technology advances, so do cyber threats. In 2025, cybersecurity challenges will become more sophisticated, requiring businesses and individuals to stay ahead. This article explores the latest cyber threats, emerging attack techniques, and strategies for defense.
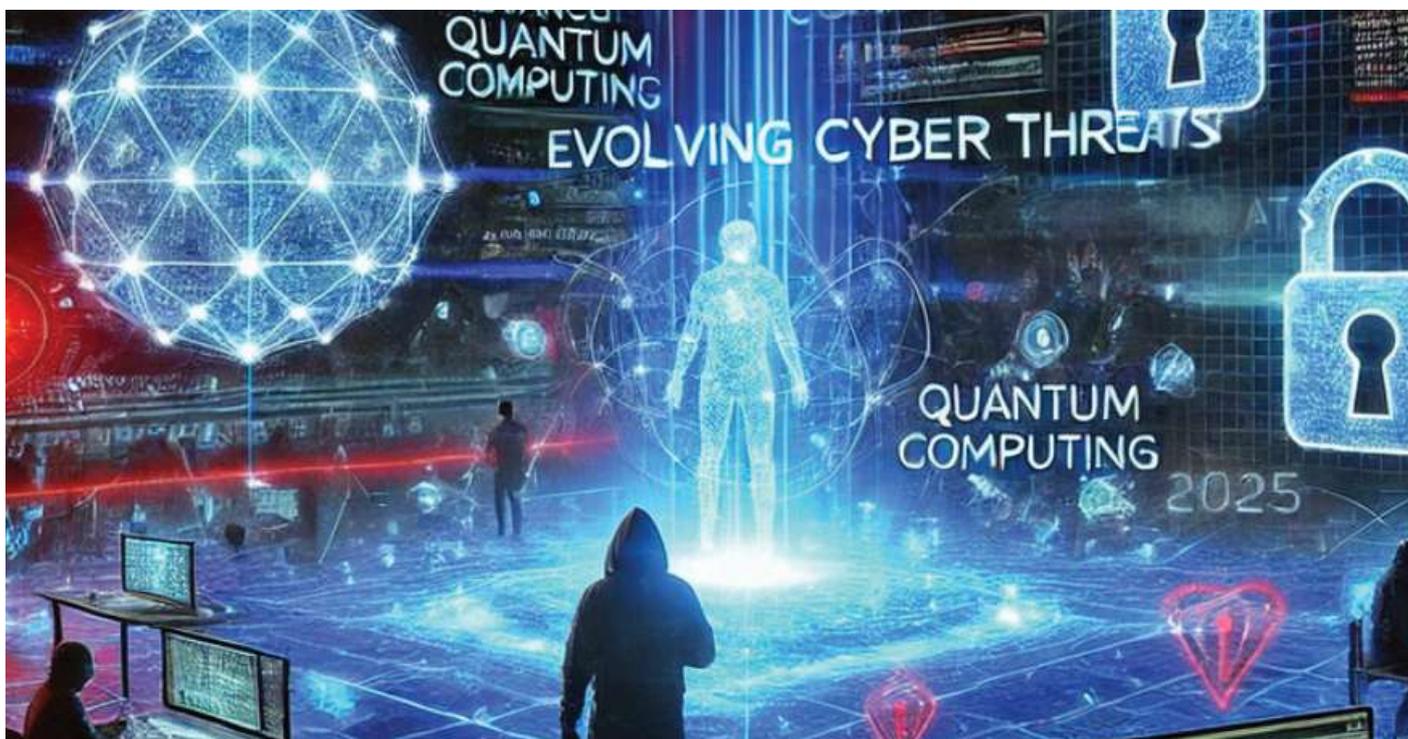
Cyber threats are evolving rapidly, with AI-powered attacks becoming a major concern. Hackers are now using machine learning to automate phishing scams, deepfakes, and exploits, making them harder to detect. Ransomware attacks are also advancing, with cybercriminals not only encrypting files but also threatening to leak sensitive data if ransoms aren't paid. The rise of IoT devices increases vulnerabilities, as unsecured smart gadgets can be used for large-scale botnet attacks. Another looming threat is quantum computing, which, once fully developed, could break current encryption methods, forcing cybersecurity experts to create quantumresistant cryptography. Additionally, cyber warfare is escalating, with state-sponsored attacks targeting critical infrastructure like power grids and financial systems. To stay safe, individuals and businesses must adopt AI-driven security tools, enable multi-factor authentication, and stay updated on cybersecurity best practices.

As deepfake technology becomes more sophisticated, misinformation campaigns and identity fraud are expected to rise, making it harder to distinguish real from fake content. Cloud security will also face new challenges as more businesses shift to remote work, increasing the risk of data breaches and insider threats. Social engineering attacks, such as AI-generated voice scams, will become more convincing, tricking people into revealing sensitive information.

By: Manjeet Singh Chaprana
CSE, Echelon Institute of Technology

Quantum Computing: The Next Big Thing in Tech

Quantum computing is no longer just a sci-fi concept. It has the potential to revolutionize fields like cryptography, medicine, and artificial intelligence.

Unlike classical computers, which use bits (0s and 1s), quantum computers use qubits. Qubits can exist in multiple states at once due to superposition. This allows quantum computers to solve problems much faster than traditional computers.

Quantum computing is set to revolutionize technology by solving problems that traditional computers struggle with. Unlike classical computers that use bits (0s and 1s), quantum computers use qubits, which can exist in multiple states simultaneously due to a phenomenon called superposition. This enables quantum computers to perform complex calculations at unprecedented speeds. Their potential applications include breaking modern cryptography, accelerating drug discovery by simulating molecules, and optimizing complex problems in finance and logistics. However, quantum computing still faces significant challenges, such as high error rates, extreme cooling requirements, and high development costs. Despite these hurdles, tech giants like Google, IBM, and Microsoft are making rapid progress, bringing us closer to a future where quantum computing could redefine industries.

By: Lavish Mittal
CSE, Echelon Institute of Technology

The Ethics of AI: Can Machines be Truly Fair?

Artificial Intelligence (AI) is transforming industries, but concerns about bias, fairness, and decision-making are growing. Can AI truly be fair, or will it always reflect human biases?

AI is revolutionizing industries but often inherits biases from flawed training data. This has led to issues in hiring, facial recognition, healthcare diagnostics, predictive policing, and financial lending, disproportionately affecting certain groups. Bias arises from imbalanced datasets, algorithmic design flaws, and lack of diversity in AI development teams, leading to unfair outcomes. For instance, AI-powered hiring tools have been found to favor certain demographics over others, reinforcing historical biases rather than eliminating them. In facial recognition, studies have shown that:-
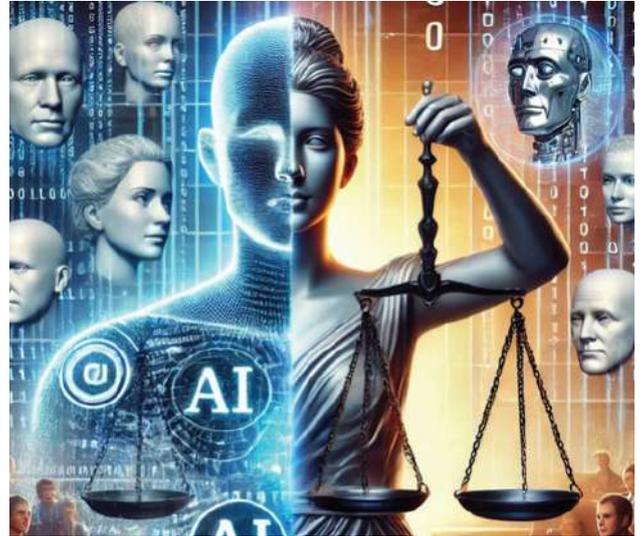
AI systems have higher error rates when identifying individuals from underrepresented racial and ethnic groups, raising concerns about discrimination and wrongful accusations. Similarly, AI-based credit scoring can unintentionally penalize individuals from disadvantaged backgrounds if trained on biased financial data.

To ensure fairness, AI must undergo continuous monitoring, auditing, and transparency in decision-making. Developers should implement techniques such as bias detection algorithms, diverse training data, and explainable AI (XAI) to reduce hidden prejudices. Moreover, governments and organizations need to establish clear ethical guidelines and regulatory frameworks to hold AI systems accountable for their decisions.

Ethical AI development is not just about minimizing bias—it's about building trustworthy and inclusive technology that benefits all of society. By prioritizing fairness, accountability, and transparency, we can create AI that empowers individuals rather than reinforcing societal inequalities, ensuring a future where technology serves everyone equitably.

By: Shuddhi Gaba
CSE, Echelon Institute of Technology

RESEARCH PUBLICATIONS

RESEARCH PAPERS

S. No.	Name of the Author	Title of Research Paper	Name of the Journal
01	Manik Jain, Sumit Das, Vidushi Gandhi	SVM-Based Framework for Breast Cancer Detection	Springer Professional
02	Harshit Gupta, Aayush Jha, Abhinav Baluni, Ms. Richa Suryavanshi	Smart agriculture through convolutional neural networks for plant disease classification	International Journal of Research -GRANTHAALAYAH
03	Ankita Rawat, Kirti Chaprana, Kshama Kumari, Ms. Ruchika Aggarwal	AI-Powered task automation and assistance on linux	International Journal of Research -GRANTHAALAYAH
04	Ujjwal Sharma, Ekta Das, Diksha, Dr. Pinky Yadav	Interactive weather forecasting system using openweather api and web technologies	International Journal of Research -GRANTHAALAYAH
05	Ishat Khan, Jiya, Krishan, Dr. Pinky Yadav, Yash Tanwar	A comprehensive blood bank management system for efficient resource and staff handling in service centers	International Journal of Research -GRANTHAALAYAH
06	Prem Kumar Tiwari, Rohan, Rinku, Mr. Ashish Kumar	Implementation of face detection and recognition using opencv for real-time biometric authentication and attendance systems	International Journal of Research -GRANTHAALAYAH
07	Sagar Yadav, Sahil, Salim Mian, Vinisha Jha	Quiz management system: A web-based approach to enhance frontend development awareness	International Journal of Research -GRANTHAALAYAH
08	Prashun Pareek, Nidhi Kumari, Dr. Pinky Yadav	Heart disease prediction using machine learning algorithms: A comparative study of logistic regression and knn	International Journal of Research -GRANTHAALAYAH
09	Himansu Pandey, Aryan, Sudesh, Sahil Aukta	Secure password management and wpa cracking: A dual approach leveraging cryptographic design and high-performance computing	International Journal of Research -GRANTHAALAYAH
10	Bhawna, Anupama, Gaurav, Bhavya Sharma	Automated cardiac disease prediction and severity detection using image segmentation and deep learning	International Journal of Research -GRANTHAALAYAH
11	Bittu, Megha, Anshul Gangwar, Dr. Pinky Yadav	Development of an automated hospital management system for enhanced patient care and operational efficiency	International Journal of Research -GRANTHAALAYAH
12	Kuber Abrol, Khushi Mittal, Karan Singh, Hitesh, Dr. Monika Garg	Smartshield: A real-time, language-aware system for sms spam detection	International Journal of Research -GRANTHAALAYAH
13	Pranay Kumar, Pahal Singh, Pankaj, Neha Singh, Dr. Vikesh Kumar	Encrypted communication with intelligent threat detection: A secure chat framework	International Journal of Research -GRANTHAALAYAH

CONFERENCE PAPER

S. No.	Name of Author	Title of Conference Paper	Name of the Conference	Indexed By	Year
01	Dr. Stuti Saxena	SVM-Based Framework for Breast Cancer Detection	Com-IT-Con 2023	Springer Nature	2024-25

BOOK PUBLISHED

S. No.	Name of Author/Editor	Book Title	Publisher	ISBN No.
01	Ms. Ruchika Aggarwal	Futuristic Trends in Artificial Intelligence	IIP (Iterative International Publishers)	Volume 3
02	Ms. Shefali Madan, Dr. Stuti Saxena	AI and ML With Python	Infinity Research	ISBN 978-81-969436-7-7
03	Dr. Stuti Saxena	Implementation of Fast N Reliable Multispectral Iris Segmentation Using Deep Learning	S U Publication	ISBN : 978-81-970242-9-0

FACULTY CORNER-ARTICLES

Cybersecurity: Protecting the Digital World

As technology advances, so do cyber threats. From data breaches and ransomware attacks to identity theft and phishing scams, cybersecurity has become a top priority in today's digital age. With more people relying on online platforms for banking, communication, and business, protecting sensitive information is more crucial than ever.

Cybercriminals use various techniques to exploit security weaknesses, often targeting individuals and businesses alike. To stay safe, it is essential to follow cybersecurity best practices such as using strong passwords, enabling two-factor authentication, avoiding suspicious emails, and keeping software updated.

The future of cybersecurity lies in advanced technologies like AI-driven security systems, blockchain-based encryption, and biometric authentication. As cyber threats evolve, so must our defense mechanisms. Ensuring cybersecurity is not just about protecting data—it's about safeguarding privacy, financial assets, and the integrity of digital systems worldwide.

As cyber threats become more sophisticated, organizations and governments are investing heavily in cybersecurity measures to stay ahead of malicious actors. Artificial intelligence (AI) and machine learning are being integrated into security systems to detect and respond to threats in real time, identifying suspicious patterns before they escalate into fullscale attacks.

Blockchain technology is also emerging as a powerful tool in cybersecurity, offering decentralized and tamper-proof data storage that makes it difficult for hackers to manipulate or steal information. Similarly, zero-trust architecture (ZTA) is gaining traction, ensuring that no user or device is automatically trusted within a network, thereby reducing the risk of insider threats.

Cybersecurity is no longer just the responsibility of IT professionals—it requires a collective effort from individuals, businesses, and policymakers. By staying informed about emerging threats, adopting proactive security measures, and fostering a culture of cybersecurity awareness, we can create a safer digital world for everyone.

By: Ms. Shalu Sharma
CSE, Echelon Institute of Technology
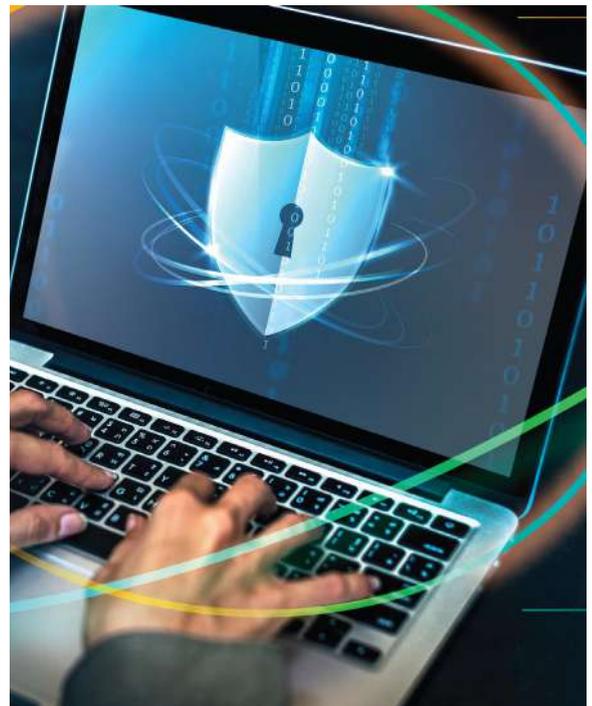
The Rise of Smart Cities: How Technology is Transforming Urban Living

As cities grow and populations increase, urban areas are turning to technology to enhance efficiency, sustainability, and quality of life. Smart cities use digital solutions, data analytics, and automation to optimize resources, reduce traffic congestion, and improve public services. From intelligent traffic management to energy-efficient buildings, the concept of smart cities is shaping the future of urban living.

One of the key components of a smart city is the Internet of Things (IoT), which connects infrastructure, vehicles, and public utilities through sensors and data networks. Smart traffic lights adjust in real time to reduce congestion, waste management systems use sensors to optimize garbage collection routes, and smart grids enhance energy efficiency by adjusting power distribution based on demand.

Public safety is also improving with AI-powered surveillance systems, facial recognition, and predictive policing, which help law enforcement agencies respond to incidents more effectively.Environmental monitoring systems track air quality, water levels, and pollution, ensuring a healthier urban environment for residents.
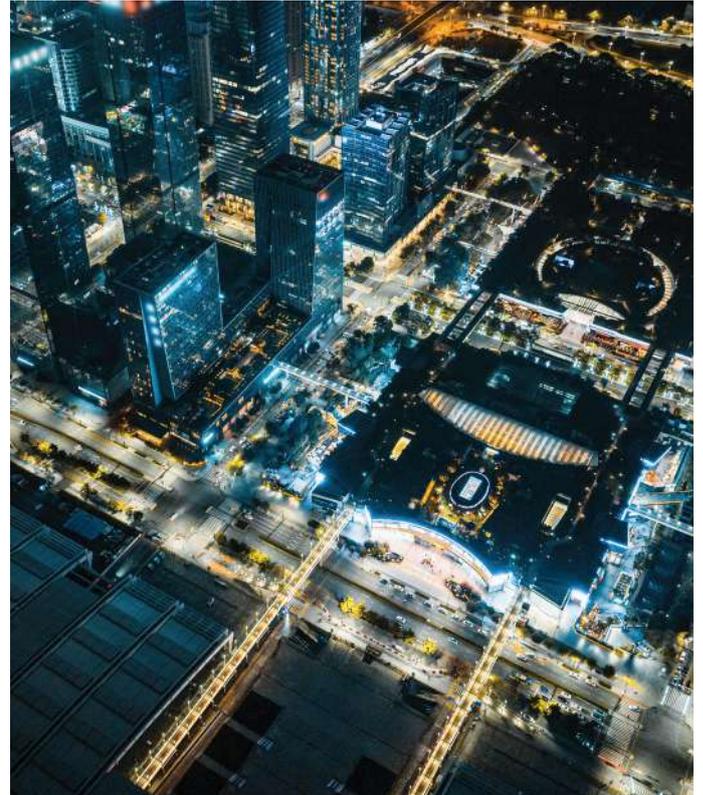
However, building smart cities comes with challenges, such as cybersecurity risks, data privacy concerns, and high implementation costs. Governments and technology companies must work together to ensure that these digital transformations are secure, ethical, and accessible to all citizens.

As technology continues to evolve, smart cities are expected to become more advanced, integrating autonomous vehicles, renewable energy solutions, and AI-driven governance. The goal is to create sustainable, efficient, and livable urban spaces where technology seamlessly enhances daily life.

By: Ms Tanya Chauhan
CSE, Echelon Institute of Technology

Professional Societies & Technical Clubs In The Department

S. No.	Professional Society Name	Membership Number
01	IEEE (Student Branch)	STB13981
02	Computer Society of India	1054230005
03	ISTE Institutional Membership	IM1814
04	ISTE Student Chapter	HR27
05	Women in Engineering Student Branch Affinity Group	SBA13981
06	ICT Academy	141640

IEEE (Institute of Electrical & Electronics Engineers)

The IEEE Club is a vibrant community of technology enthusiasts, engineers, and innovators dedicated to fostering technical excellence and professional growth. As part of the world's largest technical professional organization, we aim to provide a platform for students and professionals to engage in cutting-edge technological advancements, networking, and knowledge-sharing.

Objectives / Purpose

To promote research and innovation in engineering and technology.

To provide hands-on experience through workshops, hackathons, and competitions.

To facilitate networking opportunities with industry professionals and experts.

To enhance career development through mentorship and professional training.

To collaborate with universities, industries, and IEEE global chapters.

ISTE (Indian Society for Technical Education)- Echelon Institute of Technology

The Indian Society for Technical Education (ISTE) at Echelon Institute of Technology, established in 2009, is a vibrant platform dedicated to enhancing the technical and professional skills of students and faculty. Our society fosters innovation, research, and collaboration through interactive sessions, industry-led workshops, and hands-on technical events. As part of the prestigious ISTE network, we bridge the gap between academia and industry, empowering students with real-world exposure.

Objectives / Purpose

Enhance the quality of technical education through industry-academia collaboration.

Organize workshops, seminars, and technical talks on emerging technologies.

Provide networking opportunities with professionals, researchers, and entrepreneurs.

Encourage students to engage in technical projects, research, and innovation.

Events organized in the department

S. No.	Name of the Events	Organised By
1	Aptitude & Reasoning	ISTE STUDENT CHAPTER
2	Technical Quiz	IEEE STUDENT BRANCH
3	Adobe Illustrator	MASTERCLASS ADOBE CLUB
4	Career In Big Data	BIG DATA HADOOP CLUB
5	Hadoop Hackathon	BIG DATA HADOOP CLUB
6	Code Review Marathon	OPEN SOURCE CLUB
7	Build Your First Open-Source Project	OPEN SOURCE CLUB
8	Interactive Growth & New Ideas In Teaching Excellence With Python	ISTE STUDENT CHAPTER
9	Applied Ai: Practical Implementation	ISTE STUDENT CHAPTER
10	Ot Standards	ISTE STUDENT CHAPTER
11	Salesforce	ISTE STUDENT CHAPTER
12	Ibm Soft Skill Program	ISTE STUDENT CHAPTER
13	Business Analytics	ICT ACADEMY
14	Orientation Cum Workshop On Cyber Security By Cisco	ICT ACADEMY
15	Training On Java Programming	ICT ACADEMY
16	Personality Development And Latest Technology	ICT ACADEMY
17	Hands-on Training On Data Structure & Algorithm	ICT ACADEMY
18	Python Advance	ICT ACADEMY
19	Virutal Internship Program 2024 On Enabling Skillset Of The Future By Cisco	ISTE STUDENT CHAPTER
20	Infosys Java Developer Training	ISTE STUDENT CHAPTER
21	Internal Hackathon	ISTE STUDENT CHAPTER

Technical Club of the Department

Technical Club Categorised As

Adobe Club	Big Data Hadoop Club	Technova Club	Open-Source Development Club
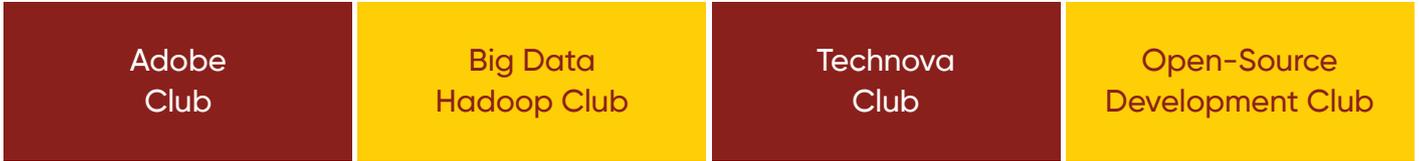
ADOBE CLUB

The Adobe Club is a vibrant community that fosters creativity, design excellence, and multimedia innovation. The club provides a platform for students and design enthusiasts to enhance their skills in digital art, graphic design, video editing, motion graphics, UI/UX design, and more. By leveraging Adobe's industry-leading software, members can explore and master various creative disciplines, participate in interactive workshops, and showcase their artistic talents.

Major Activities

The Adobe Club organizes a diverse range of activities throughout the year to engage and inspire members. These include hands-on workshops such as the Photoshop Basics Workshop for beginners, the Illustrator Masterclass for vector-based graphic design, and the Motion Graphics Workshop for animation and visual effects. Competitions like the Premiere Pro Editing Challenge and After Effects VFX Challenge provide members with an opportunity to test their skills in creative video editing.

EVENTS

- Photoshop Basics Workshop
- Adobe Creative Fest
- Premiere Pro Editing Challenge
- Logo Design Contes
- Lightroom Photo Challenge
- YouTube Content Creation Workshop
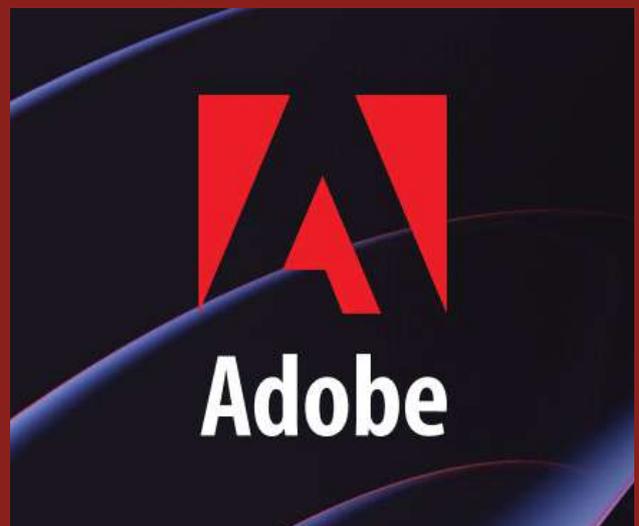
BIG DATA HADOOP CLUB

The Big Data Hadoop Club thrives on energy, creativity, and innovation, bringing passion to big data, analytics, and technology. As the digital landscape continues to evolve, the need to process, analyze, and manage vast amounts of data has never been more critical. This club provides a platform for members to dive deep into the world of Hadoop and its ecosystem, offering opportunities to enhance skills, collaborate on projects, and gain hands-on experience with the latest technologies in big data.

Major Activities

The Big Data Hadoop Club hosts engaging activities, including interactive Hadoop workshops, hands-on HDFS labs, and insightful Big Data Trends seminars. Members participate in MapReduce coding challenges, Spark integration training, and cloud-based Hadoop sessions.

EVENTS

- Introduction to Hadoop Workshop

- Hands-on HDFS Lab

- Career in Big Data

- Big Data Trends Seminar

- Hadoop Hackathon
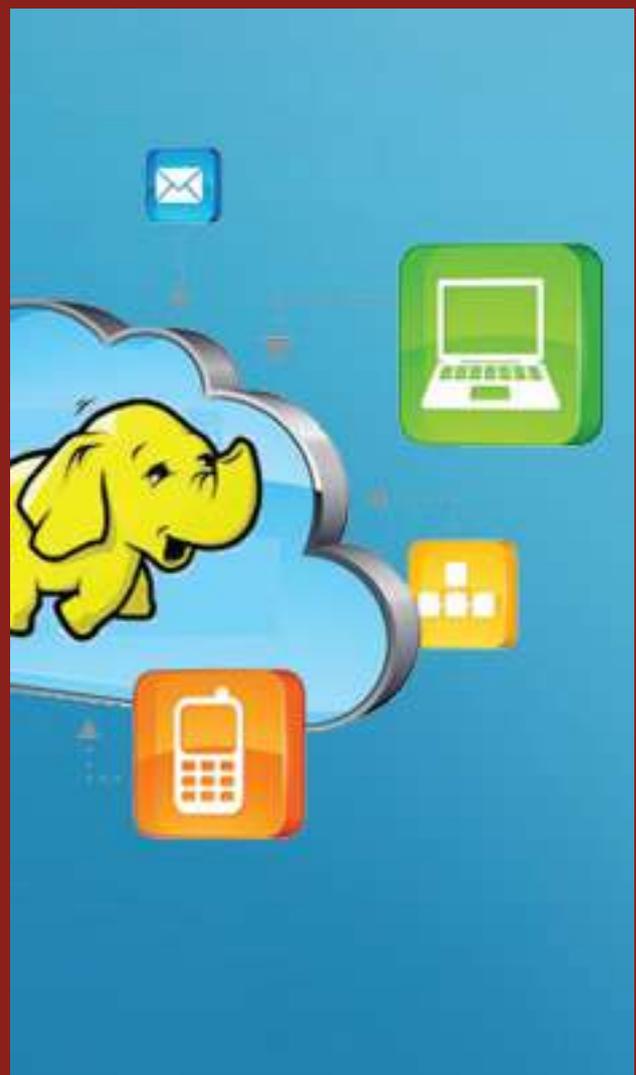
TECHNOVA CLUB

The rapid advancements in technology have made it imperative for students to stay updatedwith the latest trends and tools. Recognizing the need for a collaborative platform, wepropose the formation of a technical club, TechNova Innovators. The name "TechNova" symbolizes technical brilliance and innovation, while "Innovators" represents the creativeminds striving to make a difference. This club aims to provide a space where students caninteract, learn, and grow their technical expertise.

Major Activities

- Workshops and Training Sessions: Hands-on sessions on trending technologies like AI/ML, IoT, Blockchain, Cloud Computing, etc.
- Hackathons and Competitions: Encourage creative problem-solving and teamworkthrough coding marathons and innovation challenges.
- Guest Lectures and Webinars: Invite experts from the industry and academia to shareinsights.
- Technical Quizzes and Debates: Promote fun learning and foster critical thinking.
- Collaborative Projects: Work on real-world problems and create impactful solutions.
- Open Innovation Days: Provide students with a platform to present and discuss their ideasand projects.

EVENTS

- Inauguration of TechNova

- Treasure Hunt

- Ideathon

- Debugging Relay Race

- Project Show

- Debate on Emerging Tech

- JAM

OPEN SOURCE DEVELOPMENT CLUB

The Open Source Development Club is dedicated to fostering a culture of collaboration, innovation, and learning within the open-source community. The club provides a platform for developers, students, and technology enthusiasts to engage in hands-on activities, improve their coding skills, contribute to real-world projects, and explore emerging trends in opensource software and hardware. Through various events, workshops, and hackathons, OSDC encourages participation in open-source initiatives and builds a strong community of contributors.

Major Activities

The Open Source Development Club (OSDC) organizes activities like Hack the Source, Code Together, and Bug Hunt to encourage collaboration and code improvement. Workshops on Version Control, Linux, and Open Source Licensing & Ethics build essential skills. Open Data Visualization teaches data presentation, Documentation Jam focuses on writing clear documentation, and Code Review Marathon enhances code quality.

EVENTS

- Hack the Source

- Version Control Workshop

- Open Source Licensing & Ethics

- Open Data Visualization

- Code Review Marathon

IEEE (Institute of Electrical & Electronics Engineers)

The IEEE Club is a vibrant community of technology enthusiasts, engineers, and innovators dedicated to fostering technical excellence and professional growth. As part of the world's largest technical professional organization, we aim to provide a platform for students and professionals to engage in cutting-edge technological advancements, networking, and knowledge-sharing.

Objectives / Purpose

To promote research and innovation in engineering and technology.

To provide hands-on experience through workshops, hackathons, and competitions.

To facilitate networking opportunities with industry professionals and experts.

To enhance career development through mentorship and professional training.

To collaborate with universities, industries, and IEEE global chapters.

EVENTS

- Women Empowerment through Science & Technology-Celebration of International Day of Women and Girls in Science

- Webinar on Robotic Process Automation

- IEEE awareness and Membership Drive-Waste to Wonder Competition

- Seminar on Blockchain Technology and Crypto-currency

- Workshop on Artificial Intelligence and Machine Learning Algorithms

- Design Challenge (ECE, CSE, ME)

- Workshop on Robotics & Internet of Things

- Workshop on Augmented & Virtual Reality (AR/VR)

- Build your own Chatbot-Engineers Day

- Workshop on Emotional Health

- IEEE awareness & Membership Drive-Shark Tank

APP OF THE YEAR

Max: Where storytelling meets limitless entertainment

With a vast and ever-growing library of television shows, blockbuster movies, & exclusive original content, Max has secured its place as an award-winning streaming powerhouse. Its seamless cross-device synchronization allows you to pick up right where you left off, whether you're watching on your television, tablet, smartphone, or even a car with Google built-in. Offering unparalleled convenience and an immersive viewing experience, Max ensures that your favorite entertainment is always within reach—anytime, anywhere, and on any screen.
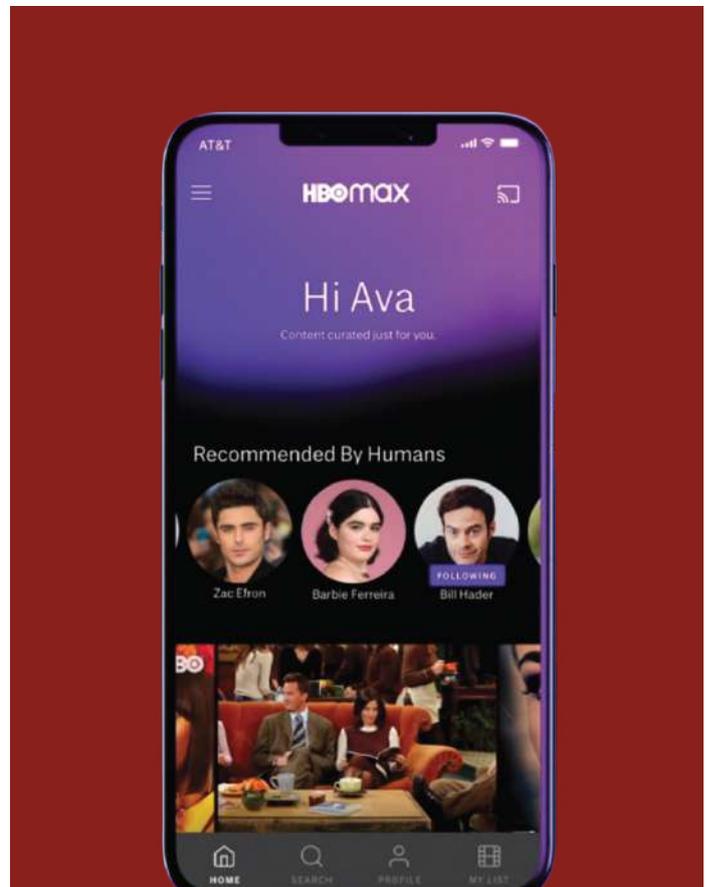
OVERVIEW

Max" is considered one of the best multi-device apps, particularly for streaming content, as it allows users to seamlessly access a vast library of movies, TV shows, and originals across various devices like TVs, tablets, phones, and even cars with Google built-in, enabling them to pick up where they left off on any screen without interruption; recently recognized by Google Play as the "Best Multi-Device App" for its smooth cross-device compatibility.

KEY FEATURES

Cross-platform Accessibility: Max is available on multiple platforms, including iOS, Android, Windows, macOS, and web browsers. It also supports streaming on smart TVs, gaming consoles, and even in vehicles with Google built-in, ensuring seamless access to entertainment anytime, anywhere.

Extensive Content Library: Max offers a vast collection of television shows, blockbuster movies, and exclusive originals from HBO, Warner Bros., DC, Discovery, and more. With thousands of hours of premium content, there's always something to watch.

Personalized Viewing Experience: Max provides tailored recommendations based on viewing history and preferences. Users can create individual profiles, download content for offline viewing, and enjoy curated watchlists to enhance their streaming experience.

High-Quality Streaming: With support for 4K Ultra HD, HDR10, Dolby Vision, and Dolby Atmos, Max ensures a superior visual and audio experience. Viewers can enjoy cinematic-quality entertainment from the comfort of their homes.

Live Sports & Events: Max includes live sports coverage through the Bleacher Report Sports add-on, featuring major leagues like the NBA, NHL, MLB, & more. Additionally, it streams special events, award shows, and exclusive premieres.

INNOVATIVE USES FOR STUDENTS

Personalized Watchlists:

Create custom playlists with your favorite movies and shows, ensuring you never miss out on the content you love. The platform's smart recommendations further enhance your viewing experience.

Multi-Device Streaming:

Start watching a movie on your TV, continue on your tablet, and finish on your phone—Max's seamless synchronization ensures you can enjoy your content anytime, anywhere.

Family Entertainment Hub:

With multiple user profiles and parental controls, Max serves as the ultimate family-friendly streaming platform, catering to every age group with a vast selection of content.

LOOKING AHEAD

Max continues to redefine the streaming experience by offering a diverse and everexpanding content library, cutting-edge streaming technology, and seamless crossplatform accessibility. With a focus on high-quality entertainment, live events, and exclusive originals, Max remains a top choice for users seeking a premium viewing experience tailored to their preferences.

CAREER ADVICE

Building a successful career in today's competitive job market requires more than just academic knowledge. Employers look for a blend of technical expertise, problem solving skills, adaptability, and strong networking abilities. Here, we provide essential strategies to help you navigate your career path—whether it's preparing for job interviews, securing internships, or enhancing your professional growth.

Diving Deeper into Tech Interviews

Mastering the Job Hunt

Beyond academic achievements, understanding how to align your skills with industry demands is crucial. Research job roles and industry trends to tailor your approach. Demonstrating this awareness during interviews & applications can set you apart from other candidates.

Showcasing Your Strengths

Your resume and interviews should tell a compelling story of your journey. Highlight your projects, internships, and problem-solving experiences. Discuss challenges you tackled, innovative solutions you implemented, and the impact of your contributions.

Developing Essential Soft Skills

Technical expertise alone isn't enough—communication, leadership, and teamwork are equally important. Employers seek candidates who can collaborate effectively, adapt to changing environments, and present ideas clearly.

Maximizing Internship Opportunities in Tech

Projects & Hackathons

It starts with building a strong foundation in relevant skills. Focus on programming languages, data structures, algorithms, and problem-solving. Work on personal projects, contribute to open-source, and participate in hackathons to showcase your abilities and gain practical experience.

Networking & Connections

Networking is key to discovering opportunities. Connect with professionals on LinkedIn, join tech communities, and attend industry events or meetups. Seek mentorship from experienced engineers and leverage university career services for guidance.

Preparations & Referrals

Preparation is essential for securing an internship. Practice coding problems, take mock interviews, and get familiar with technical and behavioral questions. Apply to multiple internships through job boards, company websites, and referrals to increase your chances.

Job Hunting Strategies in Tech Fields

Industry Specialization

Landing a job in the tech industry requires a strategic approach that goes beyond simply submitting applications. Start by identifying your area of interest—whether it's software development, cybersecurity, AI, or data science and build expertise in relevant technologies.

Continued Education & Certifications

Effective job searching involves leveraging multiple channels. Explore job boards like LinkedIn, Indeed, and company career pages, but also tap into networking opportunities. Attend industry conferences, tech meetups, and career fairs to connect with recruiters and professionals who can refer you to job openings. Engaging with online tech communities, participating in coding competitions, and sharing knowledge on platforms like GitHub or Medium can help you establish a strong professional presence.

The Power of Networking

Preparation is crucial for securing a role in tech. Many companies have rigorous hiring processes that include coding challenges, system design problems, and behavioral interviews. Practice regularly on platforms like LeetCode, HackerRank, and CodeSignal. Mock interviews and feedback sessions can help you refine your approach. Strengthen your resume by working on real-world projects, contributing to open-source software, and gaining certifications.

The tech field evolves rapidly. Stay ahead by following tech blogs, YouTube channels, and forums like TechCrunch, Dev.to, and Hacker News. Learning emerging technologies like AI, blockchain, and cloud computing can give you an edge over other candidates.

Lastly, networking with professionals through LinkedIn, tech conferences, and local meetups can open doors to job opportunities and mentorship. Actively engaging in discussions, writing blogs, or even sharing insights on social media can establish you as a knowledgeable individual in your domain. By combining continuous learning, hands-on practice, and networking, you can stay ahead in the fast-paced tech industry and position yourself for long-term success.

Placement of 2024 Batch students

S. No.	Name of the Students	University Roll No.	Name of the Company/Start Up
1	Abhishek Sharma	20015004004	Psiborg Technologies Pvt. Ltd.
2	Aniket Kumar Kaushik	20015004008	Iktara Data Sciences Pvt. Ltd.
3	Ankit	20015004009	Shri Ram Finance Ltd.
4	Anshika Sharma	20015004011	Cloud Ingenious
5	Apoorv Maity	20015004012	Hike Education
6	Apoorva Jha	20015004013	Onewayx
7	Ashish Rawat	20015004014	Edvoyage Solutions Pvt. Ltd.
8	Atul Singh	20015004015	Tcs
9	Bhavana Arora	20015004016	Wakefit Innovations Pvt. Ltd.
10	Deepak Kumar	20015004017	Mytrick
11	Gulshan Singh	20015004018	Udamandi Services Pvt. Ltd.
12	Khushbu Chaudhary	20015004022	Jp Engineering Services
13	Luxmi	20015004023	Mytrick
14	Manas Mathur	20015004024	Edvoyage Solutions Pvt. Ltd.
15	Manik Jain	20015004025	Iktara Data Sciences Pvt. Ltd.
16	Megha Sharma	20015004028	Accenture
17	Mohit Kumar	20015004029	Just Dial
18	Neha	20015004033	Mytrick
19	Nikhil Grewal	20015004034	Mytrick
20	Ojasav Kumar	20015004036	Contaque
21	Panav Yadav	20015004037	Edvoyage Solutions Pvt. Ltd.
22	Pawan Mishra	20015004039	Mytrick
23	Pratham Bindal	20015004040	Fbf Entertainment Pvt. Ltd.
24	Puja Rani	20015004041	Creative Lippi
25	Puneet	20015004042	Mytrick
26	Saurab Kumar	20015004046	Mytrick
27	Saurav	20015004047	Ey Global Delivery Services India Llp
28	Sumit Das	20015004051	Iktara Data Sciences Pvt. Ltd.
29	Sumit Pandey	20015004052	Lipi Webtech Pvt Ltd
30	Sunny	20015004053	Jcbl
31	Twinkle Kumari	20015004055	Ebullient Services

S. No.	Name of the Students	University Roll No.	Name of the Company/Start Up
32	Ujjwal Dixit	20015004056	Hike Education
33	Vidushi Gandhi	20015004058	Iktara Data Sciences Pvt. Ltd.
34	Yuvraj Pawar	20015004061	Pelocal Fintech Pvt. Ltd.
35	Nitin Chauhan	20034004007	Metadome.AI
36	Abhay Sharma	21015004501	Team Lease Services Ltd.
37	Aman Dubey	21015004505	Bp Impex

Entrepreneurship Record 2020-2024

S. No.	Name of the Students	University Roll No.	Name of the Company/Start Up
1	PARAS MANI JAIN	20015004038	Parshvdhara Foods
2	KAPIL	21015004508	A to Z Hair and Skin Care

Students Participation In MOOCs (Our MOOC Toppers)

S. No.	Name of the Students	Final Score	Certificate Type
1	Sumit Kumar	100	Elite+gold
2	Nandini Mittal	100	Elite+gold
3	Prince Roy	100	Elite+gold
4	Krishan	100	Elite+gold
5	Yash	100	Elite+gold
6	Sarvesh Nagar	99	Elite+gold
7	Piyush Singla	99	Elite+gold
8	Ritanshu	99	Elite+gold

S. No.	Name of the Students	Final Score	Certificate Type
9	Neha Kumari	99	Elite+gold
10	Lokesh	99	Elite+gold
11	Vaibhav Chawla	99	Elite+gold
12	Jiya	99	Elite+gold
13	Prince	98	Elite+gold
14	Anjela Sahoo	98	Elite+gold
15	Harsh Ojha	98	Elite+gold
16	Manjeet	98	Elite+gold
17	Kashish Mittal	98	Elite+gold
18	Prabhat Sharma	97	Elite+gold
19	Ravi Chaurasiya	97	Elite+gold
20	Lovish Gupta	97	Elite+gold
21	Deep Kumar	97	Elite+gold
22	Pranav Bhardwaj	97	Elite+gold
23	Pawan Bhati	96	Elite+gold
24	Shalu	96	Elite+gold
25	Vinod Kumar Sharma	96	Elite+gold
26	Himanshu Yadav	96	Elite+gold
27	Pallavi	95	Elite+gold
28	Raj Sah	95	Elite+gold
29	Nikhil Budhori	95	Elite+gold
30	Purvi Dhamija	95	Elite+gold
31	Ankit kumar	95	Elite+gold
32	Shivam kumar	95	Elite+gold
32	Ridhima	94	Elite+gold
33	Vikas Kumar	94	Elite+gold
34	Kirti Chaprana	94	Elite+gold
35	Rohit Rathour	94	Elite+gold
36	Manav	94	Elite+gold
37	Abhinav Baluni	94	Elite+gold
38	Sudhir Singh Panwar	93	Elite+gold
39	Lalit	93	Elite+gold
40	Shubham Yadav	93	Elite+gold
41	Yogesh	92	Elite+gold
42	Ankita Rawat	92	Elite+gold
43	Vansh	92	Elite+gold
44	Uphar Pandey	91	Elite+gold
45	Suraj kumar	91	Elite+gold
46	Vikash Anand	91	Elite+gold
47	Ajay Sharma	90	Elite+gold
48	Ankit Malik	90	Elite+gold
49	Gargi Chauhan	90	Elite+gold
50	Deepanshu Kumar Jha	90	Elite+gold
51	Manvendera Pathak	90	Elite+gold
52	Utkarsh Yadav	90	Elite+gold
53	Jahnavi Vaishnao	90	Elite+gold
54	Karan Singh	90	Elite+gold

Students Participation in Inter-College Events

S. No.	Name of the Students	Name of Activity	Level	Location	Remark
1	Lakshay	400m race	State	DTU, Delhi	3rd position
2	Jatin Gupta	800m race	State	DTU, Delhi	3rd position
3	Jatin Gupta	Table tennis	State	DTU, Delhi	3rd position
4	Jatin	Basketball	State	DTU, Delhi	4th
5	Sahil	Basketball	State	DTU, Delhi	4th
6	Jatin Gupta	Basketball	State	DTU, Delhi	4th
7	Praveen	Basketball	State	DTU, Delhi	4th
8	Jatin	Basketball	State	DTU, Delhi	4th
9	Rohan	Basketball	State	DTU, Delhi	4th
10	Raghav	Basketball	State	DTU, Delhi	4th
11	Onkar	Table tennis	Inter-college	Aravali college	Gold
12	Jatin Chaudhary	100m	Inter- college	Aravali college	2nd position
13	Jatin	Basketball	Inter- college	Aravali college	2nd position
14	Yashvinder	Techyuva	State	BIT, Gorakhpur	3rd position
15	Ankita Rawat	Techyuva	State	BIT, Gorakhpur	3rd position
16	Kirti Chaprana	Techyuva	State	BIT, Gorakhpur	3rd position
17	Kshama	Techyuva	State	BIT, Gorakhpur	3rd position
18	Jatin	Basketball	State	IIT, ROORKEE	Participation
19	Jatin	Basketball	Inter- college	Rawal institute	2nd position

Students Participation in Echiesta'24

S. No.	Name of the Students	Name of Activity	Level	Location	Remark
01	Abhishek	Technical Quiz	Institute	EIT	1st
02	Jatin	Lan Gaming (Free Fire)	Institute	EIT	1st
03	Jai	Coding Battle Institute	Institute	EIT	1st
04	Manish Kundra	Lan Gaming (Bgmi)	Institute	EIT	1st
05	Manish Prajapati	Lan Gaming (Bgmi)	Institute	EIT	1st
06	Luckey Goswami	Lan Gaming (Bgmi)	Institute	EIT	1st
07	Abhay Kumar	Lan Gaming (Bgmi)	Institute	EIT	1st
08	Himanshu	Lan Gaming (Free Fire)	Institute	EIT	1st
09	Mayank	Lan Gaming (Free Fire)	Institute	EIT	1st
10	Himanshu	Lan Gaming (Free Fire)	Institute	EIT	1st
11	Aalekh Kumar	Arduino Project Battle	Institute	EIT	1st
12	Rupanki	Arduino Project Battle	Institute	EIT	1st
13	Niharika	Group Dance	Institute	EIT	2nd
14	Raghav	Group Dance	Institute	EIT	2nd
15	Vandana	Group Dance	Institute	EIT	2nd
16	Abhinav	Group Dance	Institute	EIT	2nd
17	Jattin	Group Dance	Institute	EIT	2nd
18	Angela	Group Dance	Institute	EIT	2nd
19	Mehek	Group Dance	Institute	EIT	2nd
20	Subham	Group Dance	Institute	EIT	2nd
21	Badal Chaudhary	Kabaddi	Institute	EIT	2nd
22	Preet	Kabaddi	Institute	EIT	2nd
23	Rohit Singh	Kabaddi	Institute	EIT	2nd
24	Jitesh Chaudhary	Kabaddi	Institute	EIT	2nd
25	Prashant Vat	Kabaddi	Institute	EIT	2nd
26	Vivek Kabaddi	Kabaddi	Institute	EIT	2nd
27	Alam Kabaddi	Kabaddi	Institute	EIT	2nd
28	Ankit Malik	Kabaddi	Institute	EIT	2nd
29	Deepak Tewatia	Kabaddi	Institute	EIT	2nd

STUDENT FACULTY ACHIEVEMENT

1. Prestigious Best Paper Award

We take immense pride in our students' research excellence, which has been recognized on international platforms. At the 3rd International Conference on Analytical & Interdisciplinary Research (ICAIR-2025), our students were honored with the Best Paper Award for their outstanding contribution. This accolade reflects their dedication to innovation, analytical thinking, and commitment to high-quality research. Such achievements reinforce our institution's emphasis on fostering research-oriented learning and encourage students to excel in academic and industry-driven problem-solving.

2. Book Chapter

Notably, a research paper titled "SVM-Based Framework for Breast Cancer Detection" was published as a book chapter in Springer under the Advances in ArtificialBusiness Analytics and Quantum Machine Learning series.

This remarkable achievement not only showcases our students' ability to contribute to cutting-edge technological advancements but also reinforces our institution's commitment to high-quality research and industry-oriented learning.
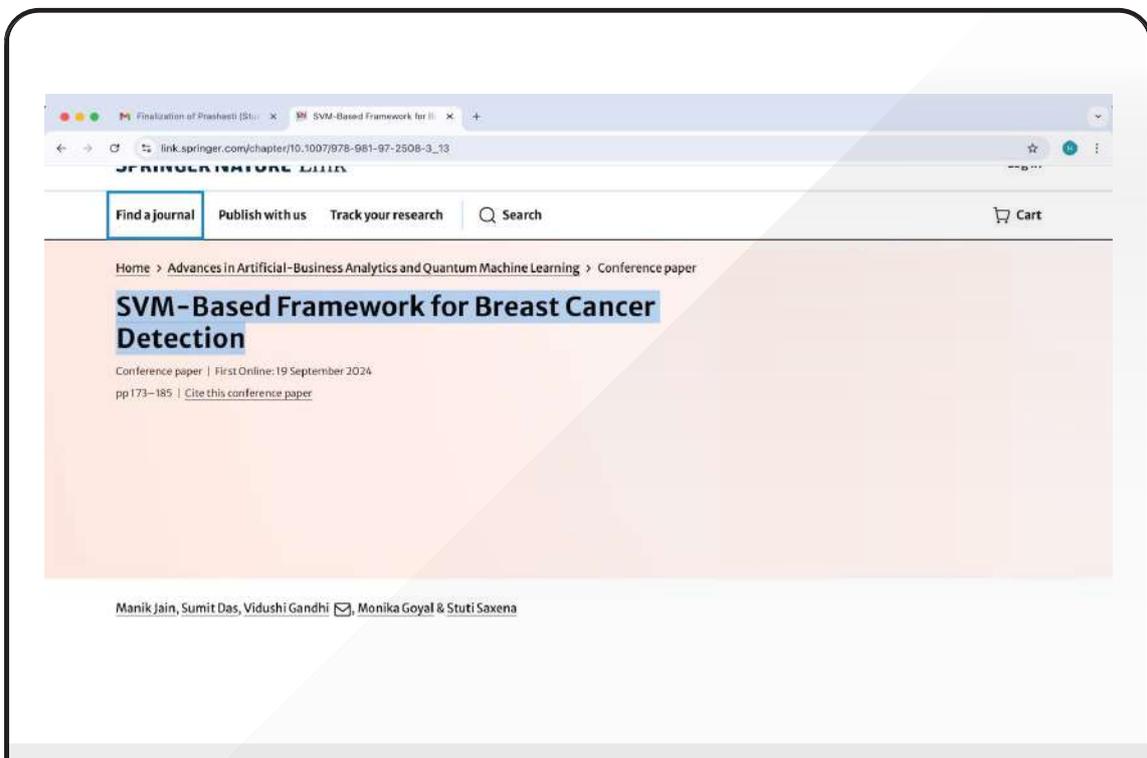
Sumit Das
20-CSE-51

Manik Jain
20-CSE-25

Vidushi Gandhi
20-CSE-58

GLIMPSE OF THE ORGANIZED EVENTS

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Affiliated To Shri Vishwakarma Skill University (Palwal) |1st Government Skill University Of India, Set Up By The Government of Haryana

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