

Future Frames – The CSE Lens

Seeing the Future Through the Lens of Technology



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In Focus: Technology & Research

Cloud Resource Management: Transforming Digital Infrastructure

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As organizations increasingly rely on cloud infrastructure for social media, AI, and digital services, efficient resource management has become critical for sustainability and performance. With data centers consuming 460TWh in 2022 and projected to exceed 1,000TWh by 2026, this research addresses digital growth while tackling environmental concerns.



Prof. Sounak Banerjee

Assistant Professor

Dept. of CSE

Current research focuses on intelligent algorithms that predict workload patterns, redistribute computing resources, and minimize energy consumption while maintaining service quality. Advanced techniques including machine learning, game theory, and stochastic modeling revolutionize cloud infrastructure management, offering solutions for next-generation systems that adapt intelligently to changing demands while minimizing environmental impact.

This field promises significant impact on reducing operational costs, improving service reliability, and achieving carbon neutrality—essential for sustainable technological advancement.

Faculty Development Program Participation

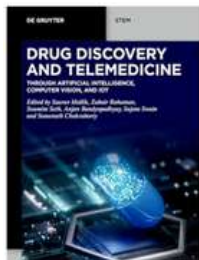
Faculty members Prof. Soumita Seth, Prof. Subhas Halder, and Prof. Abhijit Sarkar from the Department of Computer Science and Engineering successfully completed the AICTE-ATAL Faculty Development Programme on “Quantum Edge Intelligence,” organized by MCKV Institute of Engineering from 8th to 13th September 2025.

The FDP offered valuable insights into the convergence of Quantum Computing, AI, and Edge Technologies, enhancing participants' interdisciplinary knowledge in emerging computing trends.



Recognition of Academic Contribution

Prof. Soumita Seth has been recognized for her significant academic contribution as one of the Series Editors of the recently published book “Drug Discovery and Telemedicine: Through Artificial Intelligence, Computer Vision, and IoT”, published by De Gruyter (STEM Series).



Drug Discovery and Telemedicine: Through Artificial Intelligence, Computer Vision, and IoT (Dr)

Paperback – 22 September 2025

by Saurav Malik (Editor), Zubair Rahman (Editor), Soumita Seth (Editor)

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Prof. Soumita Seth's editorial role showcases her dedication to advancing interdisciplinary research and innovation in AI-driven healthcare.

Student Internship Achievement

Priya Singh, 3rd year student of the Department of Computer Science and Engineering, has successfully completed an Internship Programme on Machine Learning using Python (4th July 2025 – 2nd September 2025) with Techno Exponent. As part of the internship, she developed a project on “Flight Price Prediction – Using AI”, gaining practical exposure to data-driven problem solving and machine learning applications.

Student Achievement – Rajya Puraskar Award



Srejoni Saha, our 1st year student received the Rajya Puraskar (State Award) from the Bharat Scouts and Guides at Kolkata Town Hall. This second-highest honor for Girl Guides in India recognizes excellence in leadership, discipline, and community service.

Congratulations to Srejoni on this proud and inspiring achievement!

Future Engineers Shine at FIEM's Internal Hackathon for SIH 2025

The Internal Hackathon for Smart India Hackathon (SIH) 2025 was successfully organized at Future Institute of Engineering and Management on 16th September 2025. A total of 98 teams comprising 588 enthusiastic participants showcased their innovative ideas, creativity, and problem-solving skills.



The event was marked by energy, collaboration, and competitive spirit as students geared up for the national stage. The program was coordinated by Prof. Chanchal Ghosh, faculty Member of the Department of CSE who served as the SPOC for the event. Heartfelt appreciation to all participants, faculty jury members from CSE, CSE(DS), IT, ECE, CA department and coordinators for their efforts in making the event a grand success!

“Pathikrit 2025” – A Heartfelt Teachers’ Day Celebration



On 8th September 2025, the students of the Department of Computer Science and Engineering celebrated Teachers’ Day through their vibrant program titled “Pathikrit 2025.”

The event served as a heartfelt tribute to the guidance, dedication, and inspiration of the faculty members who continue to shape young minds with wisdom and compassion. Students expressed their gratitude through songs, dance performances, speeches, and creative presentations, making the day memorable and filled with warmth. The program concluded with a token of respect presented to the faculty, followed by moments of joy, laughter, and heartfelt interaction. The celebration beautifully reflected the bond between teachers and students, reinforcing the spirit of respect, appreciation, and togetherness that defines the FIEM CSE family.

