

Future Frames – The CSE Lens

Seeing the Future Through the Lens of Technology



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In Focus: Technology & Research

The Science Behind Aging:

A Data-Driven Journey

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Have you ever wondered how computers can help us understand life itself? That's exactly what bioinformatics does—it brings together biology, computer science, and data analysis to explore the mysteries hidden within our DNA.

With advanced technologies like Next-Generation Sequencing (NGS), scientists can now read and analyze genetic information at an incredible speed.

One fascinating part of this research is DNA methylation, where tiny chemical changes act as biological switches, turning genes on or off. These patterns not only reveal how diseases like cancer begin but also help us estimate biological age—the real age of our cells beyond the number on our birthday cake (chronological age).

When biological age rises faster than chronological age, it is called age acceleration, a sign of stress, disease risk, or cellular damage. By combining coding skills with biological insight, researchers can build predictive models, discover new biomarkers, and even understand how aging affects health. From decoding genomes to designing personalized medicine, bioinformatics opens endless possibilities for improving human life. It's a field where curiosity drives discovery—and every line of code brings us closer to understanding what makes us truly alive.



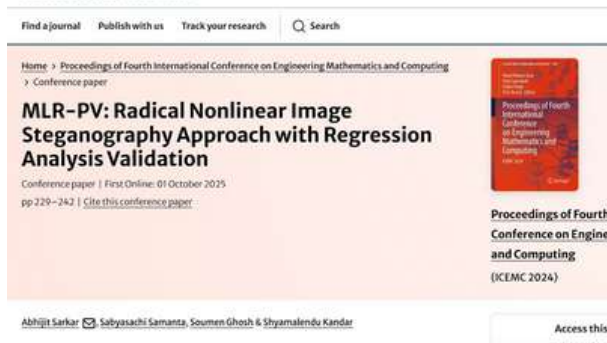
Prof. Soumita Seth

Assistant Professor
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Faculty Research Highlight

Prof. Abhijit Sarkar from Department of Computer Science & Engineering, has published a research paper titled “MLR–PV: Radical Nonlinear Image Steganography Approach with Regression Analysis Validation” in the Proceedings of the Fourth International Conference on Engineering Mathematics and Computing, published by Springer under the Lecture Notes in Networks and Systems (LNNS, Volume 1340). It presents a nonlinear pseudorandom-key-based image steganography technique that embeds secret data into edge-intensity regions in non-sequential bit positions to improve security and imperceptibility.

SPRINGER NATURE Link



This publication adds another milestone to the department's growing portfolio of research excellence in the domains of information security, image processing, artificial intelligence and machine learning.

Student Placement Achievements

The Department of Computer Science & Engineering (CSE) proudly congratulates its students for their outstanding accomplishments in campus placements.

Pronit Ghosh (CSE, YOP 2025) has been successfully selected by HCL TECH, one of India's leading global IT service providers. His selection reflects not only his technical expertise and problem-solving abilities but also his consistent academic dedication and professional readiness. The CSE Department extends its best wishes to Pronit for a successful and fulfilling professional journey ahead.



Student Placement Achievements



Subhrodev Biswas (CSE, YOP 2026) has secured placement at Cognizant Technology Solutions under the prestigious Gen-C Program through Digital Nurture 4.0, reflecting his consistent performance and dedication. The department congratulates Subhrodev on this achievement and wishes him continued success in his professional journey.

Industrial Training Awareness Sessions

The Department of Computer Science & Engineering, Future Institute of Engineering and Management (FIEM), organized two insightful Industrial Training Talk Sessions for the CSE 2027 pass-out batch as part of its industry-academia integration initiative.

On 10th October 2025, an engaging session was conducted by Ardent Computech Pvt. Ltd., where resource persons discussed the latest trends in full-stack development, AI-ML, and cloud technologies. The speakers guided students on how industrial training bridges the gap between academic learning and corporate expectations.



A follow-up session on 13th October 2025 was conducted by Euphoria GenX, emphasizing real-time project exposure, skill-based learning pathways, and internship-driven employability enhancement. Students actively interacted with the speakers and received valuable insights into emerging industrial domains and training opportunities.

CSE Innovators shine at “HackSpire 2025”: **FIEM’s flagship 25-hour hackathon**



The FIEM ACM Student Chapter successfully hosted HackSpire 2025 — a 25-hour international hackathon held at the Future Institute of Engineering and Management (FIEM), Kolkata on 31st Oct-1st Nov 2025. The event witnessed over 4100 registrations and 254 participants across 55 finalist teams, competing in cutting-edge domains such as AI/ML, Web3, Cloud, IoT, and Sustainability. From the Department of Computer Science & Engineering (CSE), the team “The Unprepared” comprising Saptarshi Chakraborty (4th Year), Rohan Chakraborti (2nd Year), Sreemoyee Sanyal (1st Year) secured the 3rd Prize for their project “AgriVani – AI-Powered Crop Advisory for Farmers”, bringing pride to the department.



Another team comprising Arya Chakraborty, Yashica Modi, Mrityika Sarkar, and Saugandhya Naha from CSE (1st Year) developed “CitiFix” — a crowdsourced civic issue reporting and resolution system. Their project was praised for its creativity and social relevance, earning them the Best Freshers Award. HackSpire 2025 celebrated innovation and collaboration, reaffirming FIEM’s stature as a center of technological excellence in Eastern India.

