



Voice of IT Department

“Greetings!



PROF. ARINDAM SINHARAY
-Assistant Professor

As we look back on a year of remarkable achievements, we want to reach out and extend our heartfelt congratulations to our students. You've truly put in the work, showed up for your semester examinations with confidence and integrity, and we couldn't be prouder of how you've come through during challenging times. Your unwavering commitment to learning has really set you apart.

Our department has gone from strength to strength since its establishment in 2007, consistently driving forward as a hub for academic and practical excellence. This is thanks to our dedicated faculty and the success of our students who are making their mark across industries, both in India and abroad. We believe that technology is the most powerful catalyst for growth and transformation. For our B.Tech students, it's not just a tool to build up skills; it's a gateway to creativity, innovation, and problem-solving.

By mastering emerging fields like AI, Cyber security, Cloud Computing, and Data Science, you can take on real-world challenges and bring about sustainable development. We will continue to stand by your growth, encouraging innovation and looking out for your success. As technology helps an individual move up in their knowledge and career, it simultaneously drives forward national progress. We are committed to bringing up the technology leaders of tomorrow.

On that note, we'd like to pass on our warmest season's greetings to everyone! We are also looking forward to the upcoming campus drives and have no doubt that our students will pull through with flying colors and go on to achieve great things. We wish you all the very best for your future endeavors.

Keep pushing for excellence!

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AI Agent Frameworks : The Technical Backbone of Intelligent Systems

AI agents are rapidly becoming essential in business, healthcare, and daily life, but their true power comes from the frameworks that enable them. An AI agent framework offers the architecture and tools for perception, reasoning, memory, and execution, transforming raw AI models into intelligent, task-driven systems.

Technically, these frameworks include components such as environment interfaces (to process inputs and connect with APIs), knowledge and memory systems (using vector databases like FAISS or Pinecone), reasoning engines (powered by LLMs, rules, or reinforcement learning), and execution layers (for tool usage, workflows, and automation). This modular approach allows agents to operate in real-world environments, scale effectively, and adapt to complex tasks.

Different frameworks bring different strengths. Some focus on natural language processing, while others excel at multi-agent collaboration or enterprise integration. The table on the next page highlights the unique features of leading AI agent frameworks:



PROF. SUBHASIS MITRA
-Assistant Professor





Framework	Key Focus Area	Core Components	Language Support	Best Use Cases
LangChain	LLM Orchestration & Tool Integration	Prompt chaining, memory modules, vector DB connectors, APIs	Python, JavaScript	Chatbots, knowledge assistants, workflow automation
Rasa	Conversational AI & Dialogue Mgmt	NLU pipeline, intent recognition, dialogue policies, custom actions	Python	Customer support bots, enterprise chat platforms
Semantic Kernel	Enterprise AI Orchestration	Skills, planners, Microsoft ecosystem connectors, embeddings	C#, Python, Java	Enterprise automation, business process AI
AutoGen	Multi-Agent Collaboration	Agent-to-agent communication, LLM coordination, tool execution	Python	Research, autonomous agents, multi-step reasoning

Looking ahead, future trends include self-improving agents that continuously learn from feedback, multimodal frameworks that process text, images, and speech together, and edge deployment for faster, privacy-preserving AI at the device level. These innovations will make AI agents smarter, more adaptive, and deeply embedded in everyday workflows



Fig: Certificate of participation received by Dr. Prosenjit Mukherjee



Faculty Achievement

On August 22, 2025, the Department of Business Administration at Future Institute of Engineering and Management hosted an insightful seminar titled “Global Trends in Academic Book Publications: Navigating the Future in the AI Era.” The event brought together scholars, researchers, and industry experts to explore how artificial intelligence is reshaping academic publishing from writing and editing to ethical considerations and digital distribution. We were pleased to award **Dr. Prosenjit Mukherjee** a Certificate of Participation for his active involvement and thoughtful contributions throughout the seminar. His participation helped spark meaningful conversations about the challenges and opportunities ahead. Overall, the seminar was a great success, encouraging everyone to embrace innovation while maintaining the integrity of academic work in this rapidly evolving landscape



Student Achievements

The FIEM ACM Student Chapter successfully organized the **Alumni Connect Tech Talks** in August 2025, with **Prof. Arindam Sinharay**, the *ACM Local Chapter Teacher Coordinator*, playing a key role in conducting the event. This initiative aimed to strengthen the bond between alumni and current students by creating a vibrant platform for knowledge exchange and mentorship. The department was delighted to welcome distinguished alumni **Suman Halder (2007–2011)** and **Arghya Dey**, who shared their professional journeys and delivered insightful talks on *Cloud Native Applications and Introduction to Machine Learning*. Their sessions inspired students to explore emerging technologies and envision their future career paths with greater clarity and confidence.





Fig: Esha Dalal representing the ACM team at Alumni Connect Tech Talks.

The success of the event was made possible through the enthusiastic efforts of both students and faculty. From the IT Department, *Neha Ghosh, Ritu Shaw, Debrup Das, Ananya Sarkar, Gunjari Bhattacharya, Sanway Nayak, and Soumen Das Sharma* contributed actively to organizing and coordinating the program. A special mention goes to *Esha Dalal*, a talented 2nd-year student, whose dedication to planning, promotion, and execution was instrumental in making the event engaging and impactful. The networking session, in particular, provided students with valuable opportunities to interact with alumni, gain career insights, and strengthen the bridge between academia and industry, truly reflecting the department's commitment to fostering a collaborative and supportive community.



Fig: Certificate of Completion received by Snehashish Sadhukhan



Fig: Certificate of Completion received by Rakesh Mandal

We are pleased to congratulate **Rakesh Mandal** and **Snehashish Sadhukhan** on successfully completing the Generative AI Mastermind program offered by Outskill. Their commitment to deepening their understanding of advanced AI technologies demonstrates a strong dedication to continuous learning and staying ahead in this rapidly evolving field. This accomplishment not only highlights their passion for innovation but also strengthens our community's expertise in emerging technologies. We look forward to seeing how they apply their new skills to future projects and initiatives.

We are proud to announce that **Shiladitya Patra** was admitted on 20th August 2025 to the *M.Tech* program at *Jadavpur University*, having been selected in both Distributed and Mobile Computing and Multimedia Technology specializations. Shiladitya has chosen to pursue his *M.Tech* in Distributed and Mobile Computing (DMC), reflecting his strong interest and dedication to this advanced area of study. We congratulate him on this achievement and wish him every success in his academic journey.



Fig: Shiladitya Patra



Fig: Raghav

We are delighted to share that **Raghav (Batch 2020-2024)**, one of our distinguished alumni, has been selected for the position of *ATC Junior Engineer (JE)* at the *Airport Authority of India (AAI)*. This achievement is a testament to his hard work, dedication, and the strong foundation he built during his time with us. We congratulate Raghav on this significant milestone and wish him great success in his professional career.

Tushar Sharma, a first-year student of our department, proudly participated in *UDAAN 78*, a spirited cycling event held on *15th August 2025* in Kolkata to celebrate 78 years of India's Independence. The event, organized by *Cycle Network Grow*, symbolized freedom, unity, and progress, encouraging participants to ride with passion and pride. Tushar's enthusiastic involvement reflected the spirit of the occasion, showcasing his dedication to fitness, community engagement, and the values of independence and togetherness.



Fig: Tushar Sharma at UDAAN 78





Esha Dalal, a 2nd-year student of our department, has brought laurels to the department by securing the first place in the dance competition at *Crux 25*, the prestigious inter-college festival of *IPGMER* and *SSKM Hospital*. Competing against over 50 talented participants, she presented a self-choreographed Odissi performance centered on the theme of women empowerment. With every movement, she sought to blend classical grace with a compelling social message, leaving a deep impact on the audience and judges alike. This achievement reflects not only her artistic brilliance but also her relentless dedication and countless hours of practice. Winning at such a competitive platform is both a personal triumph for Esha and a proud moment for the entire department. Her success is an inspiration for fellow students to pursue their passions with commitment and creativity, proving that art can be a powerful medium of expression and change.



Fig: Esha Dalal performing her award winning Odissi at Crux 25

UPCOMING EVENTS

- The department has an exciting lineup of activities planned for next month, designed to celebrate, engage, and inspire the student community:
- 1. Teachers' Day celebrations with cultural performances, speeches, and heartfelt expressions of gratitude to honor faculty members.
- 2. First-Year Orientation to warmly welcome the new batch, introduce them to the curriculum, departmental culture, and opportunities for growth.
- 3. PRASTUTI, a mock interview initiative for final-year IT students, offering constructive feedback on technical, problem-solving, and communication skills to prepare them for campus recruitment.
- 4. Wall Magazine for the upcoming session, showcasing student creativity and talent through articles, artworks, and technical write-ups.
- These initiatives collectively strive to enhance learning, engagement, and creativity, cultivating a vibrant and inspiring environment for all students.

Thank you for Reading →

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ishani.das@teamfuture.in

