

## About FDP

The International Faculty Development Program (FDP) titled “Recent Trends in Deep Learning and Quantum Computing: Innovations and Applications” is designed to empower educators with cutting-edge knowledge and practical skills in the rapidly evolving domains of deep learning and quantum computing. As these technologies reshape industries, it is essential for educators to equip students with the necessary tools to tackle future challenges. Participants will explore both foundational and advanced concepts in deep learning, including Convolutional Neural Networks (CNNs), Recurrent Neural Networks (RNNs), Generative Adversarial Networks (GANs), and Transfer Learning. Engaging in hands-on workshops, they will apply these techniques to real-world projects in areas such as healthcare, autonomous systems, and natural language processing, while also addressing the ethical implications of AI, including bias and fairness.

Additionally, the FDP will introduce participants to the fundamentals of quantum computing, covering concepts like quantum bits (qubits) and quantum algorithms, as well as exploring the synergy between quantum computing and machine learning. This includes practical demonstrations and discussions on current limitations and future applications.

By fostering collaboration among educators, enhancing their technical expertise, and promoting responsible AI practices, the FDP prepares participants to effectively integrate innovative technologies into their curriculum and inspire the next generation of AI and quantum practitioners in this exciting and transformative landscape.

## About JISCE

JIS College of Engineering, nestled in the picturesque town of Kalyani, West Bengal, stands as a beacon of quality technical education in the region. Since its inception, this esteemed institution has been committed to shaping the future of aspiring engineers and technocrats. The college's sprawling and modern campus provides an ideal environment for academic excellence and personal growth. With a diverse range of undergraduate and postgraduate programs in various engineering disciplines, JIS College of Engineering offers students a wealth of choices to pursue their passion for technology. One of the hallmarks of this institution is its dedicated and dynamic faculty, who not only impart knowledge but also inspire and mentor students to achieve their full potential. State-of-the-art laboratories equipped with cutting-edge technology provide students with hands-on experience, fostering innovation and problem-solving skills. JIS College of Engineering doesn't limit itself to classroom education. It encourages students to participate in various extracurricular activities, clubs, and technical societies, enhancing their overall development. Furthermore, the institution's commitment to research and innovation ensures that it remains at the forefront of technological advancements. It aligns its programs with industry requirements, preparing graduates to excel in their careers from day one.

### About the Department (AIML & CST)

Right from its inception, the department has been offering excellent infrastructural facilities to aspire students to meet the growing demands of the industry. The aim of the department is to provide students both theoretical knowledge and practical skills in the field of latest technology to make it easier for the employment in various sectors. The department of AIML & CST is well equipped with centralized laboratories having the latest configurations. The department is very actively pursuing research in diverse fields of Computer Science world ranging from Artificial Intelligence, Machine Learning, Deep Learning, Computer Vision, NLP, GenAI, etc. Our students have participated in different Inter-Intra Institutional events and bagged different prizes. Faculty members are associated in programs such as, NPTEL, SWYAM, etc. The faculties are involved in cutting edge research and consultancy projects. FDP, Conference, Workshop, Seminar, etc.

## An International Faculty Development Program

on

## “Recent Trends in Deep Learning and Quantum Computing”

**24th - 28th March 2025**

Organized by  
Department of CSE(AIML), CST in  
Association with Department of IT



## JIS COLLEGE OF ENGINEERING

Block A, Phase III, Kalyani, Nadia - 741235  
West Bengal

Ph. No: +91 033 2582 2138

[www.jiscollege.ac.in](http://www.jiscollege.ac.in)

E-mail: [info.jiscollege@jisgroup.org](mailto:info.jiscollege@jisgroup.org)

## Organizing Committee

**Chief Patron:** Sardar Taranjit Singh  
MD, JIS Group

**Patron:** Prof. (Dr.) Partha Sarkar  
Principal, JISCE

**Conveners:** Dr. Sitanath Biswas  
Head, Dept. of AIML & CST  
Dr. Sayan Chakraborty  
Asst. Prof., Dept. of CSE(AIML) & CST  
Dr. Soumyabrata Saha  
Head, Dept. of IT

**Co-Conveners:** Dr. Suparna Dasgupta  
Asso. Prof., Dept. of IT  
Mrs. Shubhashree Sahoo  
Asst. Prof., Dept. of CA

**Members :** Dr. Arun Kumar Sadhu  
Mrs. Saswati Rakshit  
Dr. Monish Mukul Das  
Mr. Subhadip Goswami

## Get in Touch

+918391803951 / +919433617802  
sitanath.biswas@jiscollege.ac.in  
sayan.chakraborty@jiscollege.ac.in

## Who should attend?

The International FDP on “Recent Trends in Deep Learning and Quantum Computing” is designed for educators, researchers, and professionals in fields such as computer science, engineering, business, and data science. Participants should include university faculty looking to enhance their understanding of deep learning fundamentals and applications, as well as industry professionals seeking to stay updated on the latest advancements. Additionally, graduate students and researchers interested in exploring innovative solutions and addressing challenges in deep learning will greatly benefit from this program, fostering collaboration and knowledge exchange across disciplines.

## How to Apply?

Scan to Register



**Registration Fees: 200 INR**

**Beneficiary Name:**  
**JIS COLLEGE OF ENGINEERING**  
**A/C No: 6619000100023509**  
**IFSC: PUNB0661900**

## Distinguished Speakers

### Day 1 : Deep Neural Nets: Unveiling Insights and Applications



**MR. RANA DUTTA**  
Co-Founder  
General Balance

### Day 2 - Recent Trends in Quantum Computing



**DR. SAROJ KUMAR**  
Sr. Data Scientist, Quantum Computing & Artificial Intelligence, DCG Data-Core Systems India Pvt Ltd

### Day 3 - Deep Learning and Attention Mechanism in Healthcare



**MR. SHAHID SHAIKH**  
Senior Architect,  
Accion Labs

### Day 4 - Recent Advancement of Deep Learning



**DR. SANJAY CHAKRABORTY**  
Researcher,  
Linköping University, Campus Valla, Sweden

### Day 5 - Challenges and Future Research Directions in Deep Learning



**DR. TAPAS GUHA**  
Assoc. Prof., Dept. of CSE,  
Techno International New Town, Kolkata