#### **About Electronics & ICT Academy at**



# **PDPM IIITDM Jabalpur**

The Ministry of Electronics and Information Technology (MeitY), Government of India has instituted Electronics and ICT Academies in the year 2015. In the second phase, the academy at PDPM IIITDM Jabalpur aims at scalable training programmes in niche areas of Electronics and ICT for the development of the required knowledge base, skills and tools to unleash the talent of the Indian population. The Academy is identified by the MeitY as a hub of activities for capacity building through training, internships, research, and consultancy programmes in fundamental and advanced topics in electronics, information and communication technologies, the Academy conducts customized academic programmes for students, corporate sectors and researchers

# **About Dept of CSE, SSCSE at**



# **Sharda University, Gr. Noida**

Department of Computer Science & Engineering is one of the most Dynamic and Industry Centric Departments of School of Engineering and Technology. The aim of the department is to equip the students with skills and ability to analyze, design and develop computer-based systems and its applications. The outcome-based curriculum involves industry-relevant courses that have a balanced emphasis on theory, practical and projects. The focus of the department is to strengthen and developing the techniques for problem analysis and solving, team work, design, research, communication skills, and readiness for lifelong learning. Department of CSE is having experienced Faculty Members with high skill set and research backgrounds. The department is equipped with various MoUs and Collaborations with Industry and Professional Bodies like AWS, Oracle, Microsoft, Xebia and So on. Department is continuously organizing International Conferences, Hackathons and FDPs and providing exposure to students and faculties for learning and demonstrating innovations and recent research.

# Seven Days Faculty Development Programme

# **Exploring Large Language Models: Innovations, Applications & Future Prospects**

Artificial Intelligence (AI) is revolutionizing the Education and Research Landscape, with Large Language Models (LLMs), Generative AI, and Natural Language Processing (NLP) playing a crucial role in Transforming Teaching, Learning, and Academic Research. To equip faculty members with the knowledge and skills required to leverage these advanced AI technologies, this 7-days Faculty Development Programme (FDP) has been designed to provide comprehensive insights into the latest advancements in AI and its applications.

This FDP will focus on Large Language Models (LLMs) such as GPT, BERT, and PaLM, along with Generative AI tools that enable automated content Creation, Research Assistance, and Enhanced Student Engagement. Additionally, Natural Language Processing (NLP) will be explored in-depth to demonstrate its role in Text Analysis, Summarization, Sentiment Detection, and Academic writing. Furthermore, the FDP will introduce the concept of Agentic AI, a rapidly evolving field that focuses on autonomous AI agents capable of performing complex academic and administrative tasks with minimal human intervention.

Through a combination of expert lectures, interactive discussions, and hands-on sessions, this FDP will enable faculty members to Understand, Experiment With, and Integrate AI Technologies into their teaching and research activities. The programme will also address Ethical Considerations, Responsible AI Usage, and Challenges associated with AI adoption in education. By the end of this FDP, faculty members will be equipped with the necessary Skills and Strategies to harness the power of AI for academic excellence, research advancements, and innovative educational practices.

# **Convener & Organizing Team**

## **Chief Patrons**

**Shri P. K. Gupta,** Chancellor, Sharda University **Shri Y. K. Gupta**, Pro Chancellor, Sharda University

#### **Patron**

Prof. (Dr.) Sibaram Khara, Vice Chancellor, Sharda University

#### **Co-Patron**

**Prof. (Dr.) Parma Nand**, Pro Vice Chancellor & Dean, SSCSE, Sharda University

#### Convener

Dr. Sudeep Varshney, HoD, CSE, SSCSE, Sharda University

# **Objectives of FDP**

- ·Understand the Fundamentals of AI and Large Language Models
- Explore the Capabilities of Generative AI, Natural Language Processing (NLP) and Agentic AI
- Develop Hands-on Experience
- Developing Prompt Engineering Skill

#### **Who Should Attend**

- Faculty Members
- Research Scholars
- Industry Professionals
- Al Learners

# **Important Dates**

- Last Date of Online Registration: 25<sup>th</sup> May, 2025
- FDP Dates: **26th May, 2025** to **2nd June, 2025**

## **Coordinators**

- Prof. (Dr.) Vishal Jain, CSE, SSCSE, Sharda University
- Dr. Rani Astya, CSE, SSCSE, Sharda University
- Dr. Gaurav Raj, CSE, SSCSE, Sharda University
- Dr. Sonia Setia, CSE, SSCSE, Sharda University
- **Dr. Nidhi Gupta,** CSE, SSCSE, Sharda University
- Mr. Dharm Raj, CSE, SSCSE, Sharda University
- Mr. Rajiv Kumar Nath, CSE, SSCSE, Sharda University

#### **Contact us**

Prof. (Dr.) Vishal Jain (+91 98999 97263 | vishal.jain@sharda.ac.in)

# Dr. Gaurav Raj

(+91 8587010020 | gaurav.raj@sharda.ac.in)

Seven Days Faculty Development Programme

on

**Exploring Large Language Models: Innovations,** 

**Applications & Future Prospects** 

26th May, 2025 to 2nd June, 2025

(Hybrid mode)

**Jointly Organized by** 

**Department of CSE, SSCSE,** 

**Sharda University, Greater Noida** 





**Electronics and ICT Academy IIITDM Jabalpur** 



An Initiative of the Ministry of

Electronics and Information Technology, Government

of India



# **Course Contents**

- Introduction to AI, Large Language Models & Generative AI
- Natural Language Processing (NLP) and Its Applications
- Foundations of Generative AI with LLMs
- Hands-on Training with LLM-based Tools
- Multimodal LLM
- Agentic Al

#### **Hands-On Sessions**

- Fundamentals of AI, Machine Learning, and Deep Learning
- Evolution of Large Language Models (LLMs) and Impact on different domains.
- LLM Ecosystem: Accuracy, Benchmarks, & Ethics
- Core NLP Techniques used with LLMs
- Sentiment Analysis with LLM, Exploring NLP Tools
- NLP using NLTK and Transformer
- Introduction to Generative AI & Prompt Engineering with Hands on Session
- Leveraging Advanced Prompt Engineering for Researchers
- Generative AI Tools, and its applications in Research and Education
- Building application using LLM Platforms like OpenAI's GPT, Google's BERT, and others for real-world applications.
- Practical training on LLMs for domain-specific use cases or tasks.
- Evaluating LLM Outputs & Ensuring Fairness in AI
- Deep Dive into Multimodal LLMs
- Hands-on Workshop: Implementing Multimodal AI
- Large Language Models and Intellectual Property Rights
- Introduction to Agentic AI Concepts and Architecture
- Applications of Agentic AI in Education, Healthcare & Business
- Hands on Building Simple Agentic AI Systems using LLMs
- Explainable AI and Interpretability in LLMs
- Building Chatbots and Virtual Assistants using LLMs

# **Programme Features**

- Rigorous training for theoretical and practical knowledge on drug design
- Opportunities to connect with experts in the field.
- Instructor-led rigorous hands-on sessions
- Certificate on successful completion with full access to the course material.

# **Registration Details**

• **Registration Link -** Please fill out registration using the following link:

https://forms.gle/7JFRKbMPMSa7HXNv5

Registration fee -

1000/- INR - For offline participation500/- INR - For online participation

• Last Date for Registration: **25**<sup>th</sup> **May, 2025** 

# **Online Payment Details**

Beneficiary Name	Sharda University-Seminar
Bank Name	ICICI Bank Ltd.
A/C No.	025405005815 (CURRENT AC)
IFSC Code	ICIC0000254
SWIFT Code	ICICINBBCTS
MICR Code	110229037
UPI ID	shardauniversityseminar@icici
QR Code	