



# Five-Day Faculty Development Programme (FDP)

On

## “Artificial Intelligence and Data Science: Foundations, Pedagogy, Tools, and Emerging Research Trends”

15–19 December 2025

Organized by the Department of Artificial Intelligence, SVNIT Surat  
for the Faculty Members of P. P. Savani University



### Overview

This Five-Day Faculty Development Programme (FDP), organized by the Department of Artificial Intelligence, SVNIT Surat for 30 faculty members of P. P. Savani University, provides a valuable opportunity to gain hands-on exposure to cutting-edge technologies in machine learning, deep learning, data science, and NLP. The program covers core ML concepts, data preprocessing and visualization, supervised and unsupervised learning techniques, neural networks and deep learning architectures, big data tools, ethical AI considerations, and effective pedagogy for teaching ML. It further introduces NLP applications, research methodologies, student project guidance, practical sessions with Python/R/TensorFlow/Scikit-Learn, curriculum integration strategies, assessment methods, and emerging trends in AI/ML/DS, enabling participants to enhance their teaching, research, and innovation capabilities.

### Highlights of Program

- 15 Sessions of engaging lectures and Labs
- 5-Days of involved learning
- Latest concepts and practical foundations in Machine Learning, Data Science, Deep Learning, NLP, Big Data Analytics, Ethical AI, ML Pedagogy, Research Methodologies, Curriculum Integration, Assessment Strategies, and Emerging Trends in AI/ML.
- Learning Pedagogy skills enhanced by cutting edge technologies
- Chance to interact with top researchers in the field
- Continuous and assignment based assessment
- Certificate by SVNIT Surat

### Important Dates

Last date for Registration: 8<sup>th</sup> December 2025

FDP Schedule: 15–19 December 2025

### Course Content

- Introduction to Machine Learning: Core concepts, algorithms, and applications
- Introduction to Deep Learning: Neural networks, CNNs, and RNN foundations
- Fundamentals of Data Science: Data collection, cleaning, and visualization
- Big Data Analytics: Hadoop, Spark, and scalable ML workflows
- Ethical AI and Bias in ML: Fairness, transparency, and responsible AI
- Introduction to NLP: Key applications, techniques, and research avenues
- Research Methodologies in Data Science: Hypothesis testing and experiment design
- Emerging Trends in ML/DL/DS: Industry innovations and future research directions
- Hands-on Tools: Practical training with Python, TensorFlow/Keras, and PyTorch.

### Registration Information

Fill the Google form for the registration using the link below:

<https://forms.gle/WZjZb2BaFJQFQaG58>

### Registration Fees

Participant's Category	Registration Fee
Academicians	₹ 3540/- (Inclusive GST)

### Payment Information



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### Patron

**Prof. Anupam Shukla**  
Director, SVNIT Surat

**Dr. Parag Sanghani**  
Provost, P. P. Savani University

### Convenor

**Dr. Tanmoy Hazra**  
Asst. Professor, HOD, DoAI, SVNIT Surat

### Coordinators (DoAI, SVNIT, Surat )

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Asst. Professor, DoAI, SVNIT Surat

**Dr. Rahul Shrivastava**  
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**Dr. Praveen Kumar Chandaliya**  
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### Coordinators (PPSU, Surat )

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