



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



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Date	9:30 -11:00AM		Tea Break (11:00 to 11:15 AM)	11:15-12:45PM		Lunch (12:45-2:00 PM)	Lab (2:00-3:30PM)	
	Topic			Topic	Instructor			
15.12.2025	Inaguration	Fundamentals of Machine Learning: Concepts, Algorithms, and Applications (Dr.Tanmoy Hazra)		Fundamentals of Machine Learning: Concepts, Algorithms, and Applications	Dr. Pruthwik Mishra		Hands-on Tools for Faculty: Python, R, TensorFlow, and Scikit-Learn Workshops Dr. Nitesh Funde + Mr. Hardik	
Date	9:30 -11:00AM			Session 2 (11:15-12:45PM)			Session 3 (Lab) (2:00-3:30PM)	
	Topic	Instructor		Topic	Instructor			
16.12.2025	Supervised Learning Models: Regression, Classification, and Model Evaluation	Dr. Rahul Shrivastava		Unsupervised Learning and Clustering: Methods for Pattern Discovery+ AI in Mental Health	Dr. Rahul Dixit		Hand-on tools for EDA, Pytorch, Supervised Learning Models: Regression, Classification, and Model Evaluation Dr. Praveen+Dr. Rahul S+ Ms. Arunima	
17.12.2025	Deep Learning Foundations: Neural Networks, CNNs, and RNNs	Dr. Rohit Kumar		Ethical AI and Bias in Machine Learning: Implications for Teaching and Research	Dr. Sudhakar Mishra		Hand-on Deep Learning Foundations: Neural Networks, CNNs, and RNNs , NLP Dr. Pruthwik+Dr. Rohit+Ms. Jalpa	
18.12.2025	NLP (Natural Language Processing).. Introduction/Applications/ Research Avenues	Dr. Pruthwik Mishra		8. Pedagogy in ML Education: Active Learning Strategies and Flipped Classrooms	Dr. Sankhadeep Chatterjee		Big Data Analytics: Tools like Hadoop, Spark, and Scalable ML Dr. Praveen+Dr. Nitesh+ Ms. Nita	
19.12.2025	Research Methodologies in Data Science: Hypothesis Testing, Experiment Design, and Publication Strategies	Dr. Sudhakar Mishra		Integrating Research into ML Curriculum: Case Studies and Collaborative Projects Assessment and Evaluation in Data Science Courses: Rubrics, Peer Reviews, and Outcome-Based Education	Dr. Sankhadeep Chatterjee		Emerging Trends in ML/DS: AI in Industry, Research Funding Opportunities, and Faculty Development Pathways, . Guiding Student Projects in ML: From Idea Generation to Implementation and Evaluation (Dr.Tanmoy Hazra)	Valedictory