ST. JOSEPH'S
COLLEGE OF ENGINEERING AND TECHNOLOGY
- PALAI -
AUTONOMOUS

DEPARTMENT OF ELECTRONICS AND COMPUTER ENGINEERING

Machine Learning: From Fundamentals to Emerging AI

SIX-DAY HYBRID FACULTY DEVELOPMENT PROGRAMME

PROGRAMME SCHEDULE

DATES	DAYS 1–5 | ONLINE	DAY 6 | OFFLINE
30 Nov – 5 Dec 2026	**7:00 PM – 9:00 PM**	**9:30 AM – 4:00 PM**
Monday to Saturday · 16 contact hours	Google Meet · Colab practicals	Software Computing Lab, EC Lab Block, SJCET Palai

DAY-WISE SCHEDULE & RESOURCE PERSONS

DAY & DATE	TIME	MODE	THEME	KEY TOPICS	RESOURCE PERSON
Day 1 30 Nov 2026 · Mon	**7:00 – 9:00 PM**	Online	**Foundations of Machine Learning**	Python for ML, data preprocessing, regression and classification, evaluation metrics	**Dr. Vipin Venugopal** Assistant Professor (Selection Grade), School of Artificial Intelligence, Amrita Vishwa Vidyapeetham, Coimbatore
Day 2 1 Dec 2026 · Tue	**7:00 – 9:00 PM**	Online	**Advanced Machine Learning**	Ensembles, SVM, tuning and pipelines, clustering, PCA	**Dr. Malaya Kumar Nath** Assistant Professor, Dept. of ECE, National Institute of Technology Puducherry, Karaikal
Day 3 2 Dec 2026 · Wed	**7:00 – 9:00 PM**	Online	**Deep Learning & Sequence Models**	ANN, PyTorch, CNN, RNN, LSTM, GRU	**Mr. Muhammed Raees P C** Founder & CEO, REYRA AI – An Initiative of Edutecnicia Pvt. Ltd., Calicut
Day 4 3 Dec 2026 · Thu	**7:00 – 9:00 PM**	Online	**Transformers & Generative Models**	Attention, transformer block, BERT/GPT, autoencoders, VAEs, GANs, diffusion	**Dr. Mithun Kumar Kar** Assistant Professor (Senior Grade), School of Artificial Intelligence, Amrita Vishwa Vidyapeetham, Coimbatore
Day 5 4 Dec 2026 · Fri	**7:00 – 9:00 PM**	Online	**LLMs & Applied Generative AI**	LLM internals, prompt engineering, RAG, LoRA fine-tuning, responsible AI	**Prof. Ameenudeen P E** Assistant Professor, Dept. of ECE, College of Engineering Trivandrum
Day 6 5 Dec 2026 · Sat	**9:30 AM – 4:00 PM**	Offline	**Hands-on Labs: ML, DL & RAG**	Python, pandas, NumPy, scikit-learn and PyTorch labs; generative models; RAG application	**Mr. Siju K S** Associate Professor, Saintgits College of Engineering, Kottayam

ORGANIZING COMMITTEE

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