



One - Week Faculty Development Programme in offline mode on
“Deep Learning and Generative AI for Sustainable future: Innovation in health and cybersecurity”
(31st August - 4th September, 2026)
In association with Vishwakarma Institute of Technology, Pune

Schedule

Date	Time	Topic	Expert
Day-1 31-08-2026	09:00 am - 09:30 am	Inaugural session	Dr. Snehal Shinde
	09:30 am - 11:15 am	Basics of Supervised and Unsupervised learning	
	11:15 am – 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Performance Metrics	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm – 03:30 pm	Basics of ANN Backpropagation Data Augmentation	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Transfer Learning	
Day- 2 01-09-2026	09:30 am - 11:15 am	CNN neural networks	Dr. Snehal Shinde
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Convolutions	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Pooling	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Case Study 1: Deep Learning in healthcare	
Day-3 02-09-2026	09:30 am - 11:15 am	Basics of NLP	Dr. Amol Bhopale
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Seq to Seq Models	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Seq to Seq Models	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	RNN	



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Day- 4 03-09-2026	09:30 am - 11:15 am	Use Supervised ML model - XGBoost for Network Anomalies Detection	Dr. Amol Bhopale and Dr. Nileshchandra Pikle
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Understanding Autoencoder Model and its variants	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 03:30 pm	Unsupervised Model Auto Encoders for Generative Adversarial Networks and its variants	
	03:30 pm - 03:45 pm	Tea Break	
	03:45 pm – 05:30 pm	Hands on Session / Case Study	
Day- 5 04-09-2026	09:30 am - 11:15 am	Case Study 1: Cyber Security - Network Anomalies Detection using Autoencoders, GAN	Dr. Nileshchandra Pikle
	11:15 am - 11:30 am	Tea Break	
	11:30 am - 01:00 pm	Case Study 2: Generative AI in healthcare	
	01:00 pm - 02:00 pm	Lunch	
	02:00 pm - 02:45 pm	Assessment + Feedback	
	02:45 pm - 03:00 pm	Tea Break	
	03:00 pm – 04:00 pm	General Awareness on IPR	Dr. Pankaj Kumar
	04:00 pm – 05:30 pm	Valedictory + Certification	
