06th-10th January 2025

Date	Time	Торіс	Speaker	
	10:30 AM-11:30 AM	REGISTRATION		
	11:30 AM-12:30 PM	INAUGURAL		
	12:30PM – 1:15 PM	LUNCH		
06–01–2025 (Monday)	1:30 PM-2:45 PM	 Convolutional Neural Networks: The backbone of Generative AI Understanding CNN's: Foundation of Feature Extraction and Representation Empowering Generative Models: Applications 	Dr Suresh Kumar Lokhande, Osmania University	
	3:00—4:00PM	of CNNs in Generative AI. Harnessing Generative AI: Insights, Innovations and impact on society	Dr Edgard Marx, Eccenca, Germany	
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	10:00 AM-11:30 AM	Ethical, Responsible, and Safe Requirements for AI	Dr Ponnurangam Kumaraguru, IIIT, Hyderabad	
07–01–2025 (Tuesday)	11:30 AM-12:30 PM	 Basic of Generative AI: Types of Generative Models: Variational Autoencoders (VAEs), Generative Adversarial Networks (GANs),LLM Text generative AI models, image generative AI models and text to image generative AI models 	Lakshmi Vejandla, Pantech Solutions India Pvt Ltd	
	12:30PM-1:30 PM	LUNCH		
	1:30 PM – 2:30 PM	 Hands on: Basic concepts in TensorFlow/PyTorch for generative modelling. PyTorch based Tensor creation, reshaping, 		

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		device handling		
	2:30 PM-4:00 PM	Large Language Models: A perspective of their Large pertaining Datasets	Dr Jennifer Dsouza, TIB Hannover, Germany	
08–01–2025 (Wednesday)	9:30 AM-11:00 PM 11:00 AM-12:30 PM 12:30PM- 1:30 PM	 Introduction to GANs: Generator and Discriminator networks., types of GANs, Applications. Hands on: Collect the dataset of the of text and images dataset and Apply the dataset to the pre-process to the images. Do the data visualization using matplotlib and seaborn. Splitting of the dataset with train and test splitting data. Hands on: Training GANs on image datasets.Load the library packages of pytorch or tensorflow Training GANs: Adversarial training, loss functions, gradient descent. Fine-tuning GANs for specific tasks Construct GANs algorithm with Resnet generator an discriminator model 	Lakshmi Vejandla, Pantech Solutions India Pvt Ltd Experts from Pantech Solutions India Pvt Ltd	
		LUNCH		
	1:30 PM – 2:30 PM	 Hands on: Train the dataset with images of information to get accuracy and loss. In this generator will generate new pictures from the old pictures. Demo on Image Resolution Enhancement With Sr-Gan Dvi2k 	Experts from Pantech Solutions India Pvt Ltd	

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	2:30 PM-4:00 PM 9:30 AM-11:00 AM	 Why do LLMs need Knowledge Graphs? Introduction to Large Language Model and its applications using OPENAI. Architecture and Working Principles of LLMs Deep dive into the architecture of LLMs such as GPT (Generative Pre-trained Transformer) models. Explanation of attention mechanisms, transformer architecture, and self-attention. 	Mr Prasad Yalamanchi, Lead Semantics, USA
09–01–2025 (Thursday)	11:00 AM–12:30 PM	 How LLMs generate text and understand context Hands on: Pre-training and fine-tuning phases of LLMs. Transfer learning and the importance of pre-trained models. Fine-tuning strategies for specific tasks. Load the text dataset in to the program using pandas Do the pre-process for the dataset to remove unwanted dataset information. Apply seaborn and matplotlib to visualize the data of input 	Experts from Pantech Solutions India Pvt Ltd
	12:30PM- 1:30 PM 1:30 PM - 2:30 PM	 Hands on: Apply nltk and do training the dataset then apply algorithms and find the accuracy of sentiment. 	NCH Experts from Pantech Solutions India Pvt Ltd

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		Demo on Text to image generation using stable diffusion for image generation using LLM	
	2:30 PM-4:00 PM	Real World use cases and Challenges of deploying GenAI system	Mr Ananad Panchbhai, Logy.AI, India
	9:00 AM-10:00 AM	Trustworthy Generative AI	Dr Manas Gaur, University of Maryland, Baltimore USA
10–01–2025 (Friday)	10:00 AM-12:30 PM	 Introduction to Open AI's GPT API and resources for developers. Guided hands-on exercises using GPT models through OpenAI's API. Building simple applications or prototypes using GPT for various NLP tasks. Demo on Educational named entity recognition using NLP,LLM, Openai	Lakshmi Vejandla, Pantech Solutions India Pvt Ltd
	12:30PM-1:30 PM	LUNCH	
	1:30 PM – 2:45 PM	Generative AI and Societal Impact, Discussion and Future Research	Dr M A Hameed, Osmania University
	3:00 PM – 3:45 PM	VALEDICTORY	
	3:45 PM - 4:00 PM	HIGH TEA	