



RECENT TRENDS IN DEEP LEARNING AND ITS APPLICATIONS

Organised By:

Department of Computer Science and Engineering SRM University-AP





October 14 - 18, 2024

About the University:

SRM University-AP is a multi-stream research-intensive university established in 2017 with a focus on diverse fields from Engineering to Sciences Liberal Arts to Management. Department of Computer Science and Engineering aims to impart quality and value-based education to students/researchers meet to the growing challenges in the industry. The students carry out multidisciplinary research to solve societal problems using state-of-the-art technology.

About the Programme:

is а 5-dav programme conducted in offline mode with live hands-on and interactive lectures. sessions. The program will consist of technical sessions and hands-on training modules. The technical sessions will include presentations from experts in academia and industry on the latest advancements in the themes mentioned. The hands-on training will lay a pathway to get real-time knowledge about recent trends in deep learning and its applications.

Objectives:

- Strengthen knowledge of deep learning fundamentals and introduce the latest advancements, including transformers, generative AI, and responsible AI.
- Showcase practical applications of deep learning in areas like computer vision, healthcare, automotive, and manufacturing industries.
- Equip participants with research and development skills for cutting-edge deep learning projects, encouraging innovation and practical implementations.
- Promote the integration of deep learning with emerging technologies, such as IoT, to explore innovative and future-oriented applications.

Who Can Participate?







Researchers



PG Scholars



Industry professionals

from Engineering Colleges / Institutions, Universities, Research institutions, and Industries.

Duration

The Faculty Development Programme will be conducted over five days, with four sessions each day.



Resource Persons

The resource persons for the Faculty Development Programme will be experts from academia (NITs/IIITs/Foreign University) and industry.



Dr. Arish PSenior Associate, Quantum Al Team
Pricewaterhouse Coopers (PwC),
Bengaluru



Dr. Midhula VijayanAssociate AI Architect
Forus Health Private Ltd Bengaluru



Dr. M SreenivasuluApplied Scientist
Neohumans, Hyderabad



Dr. U.S.N. Raju Associate Professor NIT Warangal



Dr. K V Kadambari Associate Professor NIT Warangal



Dr. R PreethAssistant Professor
IIITDM Kancheepuram



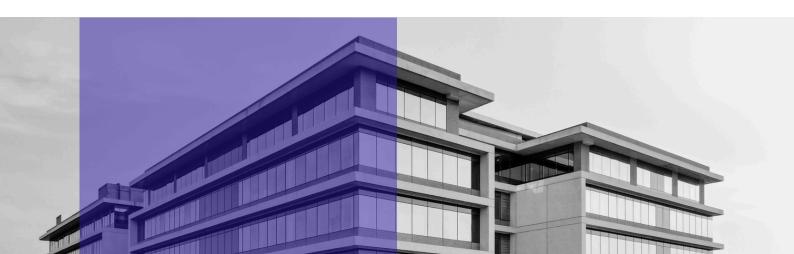
Dr. Koppala GuravaiahAssistant Professor
IIIT Kottayam



Dr. T SureshSenior Data Scientist
Happiest Minds Technologies, Bengaluru



Dr. Resmi RPostdoctoral Scientist
Northeastern University, USA



Programme Schedule

Day-1 October 14, 2024 (Monday)			
Session	Time	Programme	
	09:00 – 10:00 AM	Registration	
	10:00 – 10:30 AM	Inauguration	
	10:30 – 11:00 AM	Tea Break	
Session-1	11:00 – 12:30 PM	Introduction to Deep Learning: Exploring CNN Architectures Dr R Preeth, Assistant Professor, Department of CSE, IIITDM Kancheepuram	
	12:30 – 01:30 PM	Research Labs Visit (Dept. of CSE)	
	01:30 – 02:30 PM	Lunch Break	
Session-2	02:30 - 04:00 PM	Full residual CNN for Moving Object Detection Dr R Preeth, Assistant Professor, Department of CSE, IIITDM Kancheepuram	
	04:00 - 04:30 PM	Tea Break	
Session-3	04:30 - 05:30 PM	Hands-on Session Dr M Naveen Kumar, Dr M Mahesh Kumar & Dr Pandu Sowkuntla Department of CSE, SRM University-AP	

Day-2 October 15, 2024 (Tuesday)				
Session	Time	Programme		
Session-1	09:30 – 11:00 AM	Foundations of Deep Learning for Image Processing. Dr U.S.N. Raju, Associate Professor, Department of CSE, NIT Warangal		
	11:00 - 11:30 AM	Tea Break		
Session-2	11:30 - 1:00 PM	Advanced Techniques and Applications in Image Analysis Dr U.S.N. Raju, Associate Professor, Department of CSE, NIT Warangal		
	01:00 - 02:00 PM	Lunch Break		
Session-3	02:00 - 03:30 PM	Fairness: Metrics and Methods Dr Resmi R, Postdoctoral Scientist at Institute of Experiential AI at Northeastern University, USA.		
	03:30 - 04:00 PM	Tea Break		
Session-4	04:00 - 05:30 PM	Hands-on Session Dr M Naveen Kumar, Dr M Mahesh Kumar & Dr Pandu Sowkuntla Department of CSE, SRM University-AP		

Day-3 October 16, 2024 (Wednesday)				
Session	Time	Programme		
Session-1	09:30 – 11:00 AM	Deep Learning in the Medical Field: Transforming Healthcare Dr Midhula Vijayan, Associate AI Architect, Forus Health Private Limited, Bengaluru		
	11:00 - 11:30 PM	Tea Break		
Session-2	11:30 - 1:00 PM	Innovations and future directions in ophthalmology Dr Midhula Vijayan, Associate AI Architect, Forus Health Private Limited, Bengaluru		
	01:00 - 02:00 PM	Lunch Break		
Session-3	02:00 - 03:30 PM	Introduction to Recurrent Neural Networks. Dr KV Kadambari, Associate Professor, Department of CSE, NIT Warangal		
	03:30 - 04:00 PM	Tea Break		
Session-4	04:00 - 05:30 PM	Applications of RNNs in Real-world Scenarios. Dr KV Kadambari, Associate Professor, Department of CSE, NIT Warangal		

Day-4 October 17, 2024 (Thursday)				
Session	Time	Programme		
Session-1	09:30 – 11:00 AM	Retrieval Augmented Generation in Generative Al Dr Arish P, Senior Associate, Quantum Al Team, Pricewaterhouse Coopers (PwC), Bengaluru		
	11:00 – 11:30 PM	Tea Break		
Session-2	11:30 – 1:00 PM	Multi-agent Generative Al Applications. Dr Arish P, Senior Associate, Quantum Al Team, Pricewaterhouse Coopers (PwC), Bengaluru		
	01:00 -02:00 PM	Lunch Break		
Session-3	02:00 -03:30 PM	Introduction to Transformers Dr M Sreenivasulu, Applied Scientist, Neohumans, Hyderabad		
	03:30 -04:00 PM	Tea Break		
Session-4	04:00 –05:30 PM	Applications of Transformers across domains Dr M Sreenivasulu, Applied Scientist, Neohumans, Hyderabad		

Day-5 October 18, 2024 (Friday)			
Session	Time	Programme	
Session-1	09:30 – 11:00 AM	Real-Time Applications of IoT: Revolutionizing Connected Systems Dr Koppala Guravaiah, Assistant Professor, IIIT Kottayam	
	11:00 - 11:30 PM	Tea Break	
Session-2	11:30 - 1:00 PM	Integrating Deep Learning for Enhanced IoT Solutions Dr Koppala Guravaiah, Assistant Professor, IIIT Kottayam	
	01:00 - 02:00 PM	Lunch Break	
Session-3	02:00 - 03:30 PM	Recent Trends and Applications in Computer Vision Dr Suresh T, Senior Data Scientist, Happiest Minds Technologies, Bengaluru	
	03:30 - 04:00 PM	Tea Break	
	04:00 - 05:00 PM	Closing Ceremony and Feedback	

Registration & Contact Details



Email fdp.rtda@srmap.edu.in



Registration Link https://forms.gle/KMDEbCyFmzLhEaCr6



Registration Fee (Industry /Academia)
INR 500/-



Seats Available **Limited to 75 Participants**

Programme Coordinators



Convenor

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Co-Convenor

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Co-Convenor

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