



Faculty Development Program



VIT[®]
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Event Outcome

Title : Emerging areas in ML and DL and Applications on Edge devices

Date : 2025-01-27 - 2025-01-31

Time : 10:00 - 17:30

Venue : TT727

- C01 Enhances knowledge in emerging areas of ML and DL
- C02 Provides Exposure to Edge AI Technologies
- C03 Provides knowledge to build and deploy ML models
- C04 Enhances knowledge to guide hardware projects and prototype and product design
- C05 Enhances teaching research capabilities networking and collaboration with industry

	<p>Resource Person 1 - Details Name : Malayakumar Nadh Designation : Associate Professor, Electronics and Communication Engineering University/ Company : NIT Pandichery, Pandichery Address : INDIA, 609609.</p>
	<p>Resource Person 2 - Details Name : Sudip Roy Designation : Associate Professor, Computer Science and Engineering University/ Company : IIT Roorkey, Roorkey Address : INDIA, 247667.</p>
	<p>Resource Person 3 - Details Name : Jayaraj U Kidav Designation : Executive Director, Electronics and Information Technology University/ Company : NIELIT, Aurangabad Address : INDIA, 431004.</p>
	<p>Resource Person 4 - Details Name : Aswani Kumar Cherukuri Designation : Professor Higher Academic Grade, School of Computer Science Engineering and Information Systems University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 5 - Details Name : Ananthakrishna Chintanpalli Designation : Professor Grade 1, School of Electronics Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 6 - Details Name : Sreejesh S G Designation : STO, Electronics and Information Technology University/ Company : NIELIT, Calicut Address : INDIA, 673601.</p>
	<p>Resource Person 7 - Details Name : Satyanarayana Vuppala Designation : HEAD, Generative AI University/ Company : D and B, Dublin Address : Ireland, 3531.</p>
	<p>Resource Person 8 - Details Name : Chinmay Sahu Designation : Research Scientist, DIS University/ Company : THALES, SEATTLE Address : USA, 98101.</p>

	<p>Resource Person 9 - Details Name : Dr V Vijaya Saradhi Designation : Professor, Computer science and engineering University/ Company : IIT Guwahati, Guwahati Address : INDIA, 781039.</p>
	<p>Resource Person 10 - Details Name : Rajesh Kumar M Designation : Associate Professor Sr., School of Electronics Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 11 - Details Name : Prakash R Designation : Associate Professor Sr., School of Electronics Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 12 - Details Name : Suraj Prakash Sahoo Designation : Assistant Professor Sr. Grade 1, School of Electronics Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 13 - Details Name : Sri Adibhatla Sridevi Designation : Professor Grade 1, School of Electronics Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 14 - Details Name : Mr Venu Madhav Designation : Field Application Engineer, ECE University/ Company : Corel Technologies, Hyderabad Address : INDIA, 500033.</p>

Resource Person's Profile :

1. Profile of Malayakumar Nadh

Dr Malaykumar nadh is Associate Professor in NIT Pandichery. He ia head of the department of Electrnics and Communication Engineering. His area of research are Machine learning, deep learning, signal processing and image processing.

2. Profile of Sudip Roy

Dr Sudip Roy is Associate Professor in department of computer science and engineering, IIT ,Roorkey. His area of interests are Design Automation and Optimization for Digital Systems, Microfluidic Biochips, IoT and Data Analytics for Smart Systems, Computing for Disaster Risk Reduction (DRR), Applications of ML and DL.

3. Profile of Jayaraj U Kidav

Dr. Jayaraj U Kidav, a Scientist 'G' and Executive Director at the National Institute of Electronics and Information Technology (NIELIT) in Aurangabad, has a rich academic background. With expertise in dynamic high-performance VLSI signal processing, I specialize in developing adaptive beamformers for diverse applications such as Medical Ultrasound imaging, SONAR, RADAR, etc. and Electronic Product Design.

4. Profile of Aswani Kumar Cherukuri

Dr Ashwini kumar Cherukuri is Professor (HAG) in SCOPE and is top 2 percent scientists

5. Profile of Ananthakrishna Chintanpalli

Dr Anantha krishna Chintanpalli is a professor from SENSE. He has expertize in CNN for image processing.

6. Profile of Sreejesh S G

Sreejeesh SG is Senior Technical Officer, NIELIT Calicut. His area of interest are VLSI, FPGA,ASIC and IPCore Design

7. Profile of Satyanarayana Vuppala

As the Head of Generative AI Security at D and B, reporting directly to D and B's Chief Information Security Officer,Satyanarayana Vuppala lead the global Generative AI security strategy across the enterprise, including securing AI product pipelines and corporate Gen AI services.

8. Profile of Chinmay Sahu

Dr. Chinmay Sahu is a computer vision research scientist at Thales, DIS USA, with expertise in multimodal biometrics, deep learning, machine learning, image processing, and computer vision. With over a decade of experience in machine learning and control systems, he has developed advanced algorithms for fingerprint and iris recognition, addressed bias in face recognition, improved IoT localization, and tackled biomedical challenges.

9. Profile of Dr V Vijaya Saradhi

Dr. Vijayasaradhi is a Professor in the department of computer science and engineering at IIT Guwahati. He obtained PhD from IIT Kanpur in computer science and engineering, M.Sc (Engg) from IISc Bangalore in computer science and automation and BTech in civil engineering from Nagarjuna university. His research interests are machine learning applications and algorithm development.

10. Profile of Rajesh Kumar M

Dr Rajesh M is Associate Professor in SENSE. He is a good reseaecher has many international funded projects to his credit.

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11. Profile of Prakash R

Dr Prakash R is Associate Professor ,SENSE VIT. His research area is Machine learning , deep learning specifically Convolutional Neural Networks and their applications.

12. Profile of Suraj Prakash Sahoo

Dr Suraj Prakash Sahoo is assistant Professor in SENSE. His research interests are artificial intelligence, machine learning,human action recognition and human gesture recognition.

13. Profile of Sri Adibhatla Sridevi

Dr S.Sridevi is a Professor in SENSE. Research area is low power vlsi and hard ware accelerators for AI and ML.

14. Profile of Mr Venu Madhav

Venu Madhav is field application engineer at Corel Technologies. As a Technical resource person in CoreEL University Program Team (CUPT) providing the awareness on ASIC Design and FPGA design flow concepts in academics with focus on Mentor Graphics Xilinx tools and hardware.

The 5-day Faculty Development Program (FDP) on "Emerging Frontiers in Machine Learning and Deep Learning Applications on Edge Devices" is designed to explore the transformative potential of edge computing for real-time data processing using advanced ML and DL techniques. This FDP will provide participants with an in-depth understanding of how ML and DL models can be optimized for edge devices. The program will cover the fundamentals of ML DL algorithms, model compression techniques, and optimization methods tailored for resource-constrained edge environments. Participants will learn to design, deploy, and optimize machine learning models on edge devices, focusing on key applications such as computer vision, natural language processing , image processing for biomedical, agricultural and structural engineering

Google Colab python tensor edge AI Vivado

**Coordinator's: Prof. SRI ADIBHATLA SRIDEVI 13751 - Professor Grade 1 - SENSE
Prof. PRACHI SHARMA 19689 - Associate Professor Grade 1 - SENSE**