



Faculty Development Program



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

Event Outcome

Title : Frontiers of Research in Transfer Learning, Federated Learning, and Explainable AI: Methods and Applications

Date : 2025-10-06 - 2025-10-10

Time : 10:00 - 17:30

Venue : SJT107

- Participants will gain advanced knowledge of transfer learning
- Federated learning concepts, methods, and applications.
- Faculty and researchers will be equipped with enhanced research skills to pursue impactful projects and publications in emerging AI domains
- Attendees will be able to integrate modern machine learning approaches into teaching, research, and interdisciplinary collaborations effectively.
- Strengthen their expertise in cutting-edge deep learning techniques for academic and applied research.

	<p>Resource Person 1 - Details Name : JAI GANESH SURESH Designation : Lead AI Architect, Valeo University/ Company : Valeo, Chennai Address : India, 600130.</p>
	<p>Resource Person 2 - Details Name : Mr Deepan Raj M Designation : Technical Manager , HCL TECH University/ Company : HCL TECH, Chennai Address : Chennai, 600119.</p>
	<p>Resource Person 3 - Details Name : V Sathiesh Kumar Designation : Deputy Director, Anna University University/ Company : Anna University, Chennai Address : India, 600025.</p>
	<p>Resource Person 4 - Details Name : Dr Adilakshmi Vadavalli Designation : Senior Data scientist, Capgemini Technology services India Ltd Chennai University/ Company : Capgemini Technology services India Ltd Chennai, Chennai Address : India, 603103.</p>
	<p>Resource Person 5 - Details Name : Ms Durga Ravichandran Designation : Senior software engineer , Ex Caterpillar University/ Company : Ex Caterpillar Chennai, Chennai Address : India, 600113.</p>
	<p>Resource Person 6 - Details Name : Priya G Designation : Professor Grade 1, School of Computer Science and Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 7 - Details Name : Sridhar Raj S Designation : Assistant Professor Sr. Grade 1, School of Computer Science and Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 8 - Details Name : P Varalakshmi Designation : Professor , Department of Information Science and Technology University/ Company : Anna University, Chennai Address : India, 600025.</p>

**Resource Person 9 - Details****Name :** Pradeepa M**Designation :** Associate Professor Grade 1, School of Computer Science Engineering and Information Systems**University/ Company :** VIT, Vellore**Address :** India, 632014.**Resource Person 10 - Details****Name :** Ramya.g**Designation :** Associate Professor Grade 1, School of Computer Science Engineering and Information Systems**University/ Company :** VIT, Vellore**Address :** India, 632014.

Resource Person's Profile :

1. Profile of JAI GANESH SURESH

Currently working as Lead AI Architect at Valeo, Chennai, with more than 8 years of experience, Speaker of INDIA BOOK OF RECORD HOLDER for conducting Most number of people involved in Artificial Intelligence Workshop. Some achievements are - The Youngest Judge of the Smart India Hackathon 2019 event, Appreciated by Dr. Abdul Kalam for involving in the development of Humanoid Robot, Conducted workshop and training programs at various colleges.

2. Profile of Mr Deepan Raj M

Currently working as Technical Manager (Data Science) at HCL Technologies, having 7 years of experience. Some remarkable achievements are - Appreciated by Dr. A.P.J. Abdul Kalam for creating a 5 feet cost effective Humanoid robot, International Award winner for contributing a real time project using robots for easing the work of farmer, International Award winner for contributing a novel approach in effective Brain Computer Interface by coining a new concept named Neural Linguistic Dictionary

3. Profile of V Sathiesh Kumar

Working as an Deputy Director, Planning and Development, Anna University, Chennai, with 13 years of teaching experience. He is also acting as a Deputy Director Planning and Development, Anna University. He received his PhD from, IIT Madras, Chennai. His research interest includes Artificial Intelligent Systems, Embedded Systems, Optoelectronics, Machine Learning, Computer Vision, Laser remote sensing. He has published 84 International Research Publications and 2 patents.

4. Profile of Dr Adilakshmi Vadavalli

A result-driven Data Scientist by profession with 18 years of experience and recent 7 years in Data Science and Machine Learning across organizations like Capgemini, Cropin Technologies and Green Olive Innovation Solutions to name a few. Strong experience in identifying business requirements and data analysis. Vast exposure in deploying ML models at scale using docker containers and improving productivity using Python and AWS workflows. A team leader who can add value to any organization.

5. Profile of Ms Durga Ravichandran

Senior Software Engineer with 10 years of experience in software development, specialising in embedded systems. Skilled in coding, integration, and validation using Python, with hands on expertise in applying AI ML techniques such as predictive analytics and anomaly detection to enhance system reliability and performance. Proficient in Python, SQL, and leading ML frameworks including scikit-learn, TensorFlow, and PyTorch.

6. Profile of Priya G

Professor in the Department of Analytics in the School of Computer Science and Engineering at Vellore Institute of Technology, Vellore. She has served as Head of the Department (HoD) for the Department of Analytics. Areas of interest are Trust management, Security issues in cloud computing, IoT, Machine learning, and Blockchain Technology.

7. Profile of Sridhar Raj S

Dr. Sridhar Raj S, an Assistant Professor (Senior Grade) at VIT, Vellore, highlighting his research focus in Computer Vision and AI, academic background including a PhD from NIT Trichy and an M.Tech from Pondicherry University, current teaching role, and his engagement in guest lectures and FDP sessions addressing Gen AI, ML, IoT, and CNN GAN-based image processing.

8. Profile of P Varalakshmi

Dr P Varalakshmi is a Professor in the Department of Information Science and Technology at Anna University, Chennai, and currently serves as Director of the Centre for Artificial Intelligence Data Science Research and Applications CAInDRA. With a Ph.D. in Information and Communication Engineering 2009 and over three decades of academic and research experience, she has published extensively 103 international journal papers, 132 international conference papers, and several books.

9. Profile of Pradeepa M

Dr. M. Pradeepa, Focuses on a broad research portfolio spanning machine learning, IoT, image and signal processing, medical diagnostics and explainable AI. Publications cover diverse applications healthcare, agriculture, environmental sensing, education, and smart city contexts. Research outputs are distributed across journals, conference proceedings, and edited volumes from 2014 to 2025.

10. Profile of Ramya.g

Dr. G. Ramya, Her educational background includes a B.Tech in IT, M.Tech in IT, and a Ph.D., and she currently serves as an Associate Professor at VIT Vellore, in SCORE department.

With over 47 papers published in Scopus-indexed and SCI journals, Dr. Ramya has made significant contributions to the research community. Her achievements extend beyond journal articles, as she is the author of 4 books and has published 2 patents. Additionally, she is working on an ongoing consultancy project,

The 5 day Faculty Development Program on Frontiers of Research in Transfer Learning and Federated Learning: Methods and Applications is meticulously structured to advance participants expertise in state of the art Deep learning paradigms. The program emphasizes theoretical foundations, emerging methodologies, and diverse applications of transfer learning and federated learning. Delivered through expert led sessions, case studies, and practical demonstrations, it seeks to strengthen research competencies and foster innovation driven teaching practices. By bridging conceptual insights with real world implementations, the program aspires to equip faculty with the knowledge and tools essential for impactful research, academic excellence, and meaningful contributions to the evolving field of artificial intelligence.

Federated learning tools

Coordinator's: Prof. RAMYA.G 12374 - Associate Professor Grade 1 - SCORE
Prof. PRADEEPA M 16194 - Associate Professor Grade 1 - SCORE