



Faculty Development Program



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

Event Outcome

Title : Empowering Interdisciplinary Collaboration through Machine Learning

Date : 2026-03-16 - 2026-03-20

Time : 10:00 - 17:30

Venue : PRP450

- Install Python software and IDEs and understand the basics of datatypes
- Manipulate data using Numpy and Pandas, and visualize data using Matplotlib
- Implement various machine learning algorithms in sklearn package.
- Evaluate various machine learning algorithms
- Apply machine learning algorithms on given data and Evaluation and visualization of model performance, making predictions.

	<p>Resource Person 1 - Details Name : Ragukumar P Designation : Assistant Professor Sr. Grade 2, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 2 - Details Name : Anuradha J Designation : Professor Grade 1, School of Computer Science and Engineering University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 3 - Details Name : Dr A Vamshi Designation : Assistant Professor Grade II, Department of Information Technology University/ Company : NITK Surathkal, Surathkal Address : India, 575025.</p>
	<p>Resource Person 4 - Details Name : Dr J Satheesh Kumar Designation : Professor, School of Computer Science and Engineering University/ Company : Bharathiar University, Coimbatore Address : India, 641046.</p>
	<p>Resource Person 5 - Details Name : Dr C Muthu Designation : Professor and Head, Department of Data Science University/ Company : Loyola College , Chennai Address : India, 600034.</p>
	<p>Resource Person 6 - Details Name : Prakash M Designation : Assistant Professor Sr. Grade 1, School of Advanced Sciences University/ Company : VIT, Vellore Address : India, 632014.</p>
	<p>Resource Person 7 - Details Name : Mr Jai Ganesh Designation : Lead AI Architect, Ericsson India University/ Company : Ericsson India, Chennai Address : India, 600076.</p>
	<p>Resource Person 8 - Details Name : Dr M Sangeetha Designation : Professor, Information Technology University/ Company : Coimbatore Institute of Technology, Coimbatore Address : India, 600025.</p>

**Resource Person 9 - Details****Name :** Dr Ponnuraja C**Designation :** Scientist F, National Institute for Research in Tuberculosis**University/ Company :** Indian Council of Medical Research , Chennai**Address :** India, 600031.**Resource Person 10 - Details****Name :** Dr Selvakumar K**Designation :** Assistant Professor, Department of Computer Applications**University/ Company :** National Institute of Technology Trichy, Trichy**Address :** India, 620015.

Resource Person's Profile :

1. Profile of Ragukumar P

Dr. Ragukumar P is Assistant Professor Senior Grade 2 in Department of Mathematics, School of Advanced Sciences, VIT, Vellore. He holds Ph.D. from Anna University, Chennai. He has a two year post-doctoral experience at The Institute of Mathematical Sciences, Chennai. His areas of expertise include Graph theory, Parameterized algorithms, Machine Learning, Deep Learning.

2. Profile of Anuradha J

Dr. J Anuradha is a Professor Grade in the School of Computer Science and Engineering. She holds Ph.D in Machine Learning from VIT University, Vellore. Her areas of interest are Data Analytics, Machine Learning, Soft Computing and allied fields. She has published patents 2 patents and she has industry collaboration with Samsung through PRISM projects on GenAI for smart Home Appliances.

3. Profile of Dr A Vamshi

Dr. A. Vamshi is currently serving as an Assistant Professor in the Department of Information Technology at the NITK, Surathkal. He holds a Ph.D. from NIT Tiruchirappalli, M.Tech from the University of Hyderabad, and B.Tech in Computer Science and Engineering from IIIT Kalyani. His research interests span across Machine learning, AI, Security, Privacy and Beyond cybersecurity, cloud computing, blockchain, cloud-IoT integration, and cyber-physical systems.

4. Profile of Dr J Satheesh Kumar

Dr. J. Satheesh Kumar is a Professor in Department of Computer Applications, School of Computer Science and Engineering at Bharathiar University, Coimbatore. He is a member of IEEE. He hold PhD in Computer Science. He has a vast experience of 25 Plus years in Research and Teaching. His research interests are Image Processing and Medical Imaging, Signal Processing, Networks and Soft Computing. He was investigators for several projects a total worth of Rs. 16.22 Crores.

5. Profile of Dr C Muthu

Dr. C. Muthu is presently Professor and Head in the Department of Data Science, Loyola College, Chennai. He holds a Ph.D. in Statistics from Bharathidasan University. He has vast experience of 36 years in teaching. He has guided 4 Ph.D. scholars and 30 MPhil scholars. He is the author of 4 books of various programming languages. He authored several research articles in reputed journals.

6. Profile of Prakash M

Dr. Prakash M is working as Assistant Professor Sr. in the Department of Mathematics, School of Advanced Sciences, VIT, Vellore. He holds a PhD in Mathematics from Gandhigram Rural Institute-Deemed University. He was a post-doctoral fellow in National Post-Doctoral Fellow, IIT-Kanpur during 2016 to 2017, 2018 and in Research Center for Wind Turbine Systems, Kunsan National University, Gunsan, South Korea during 2017 to 2020. His areas of interest include Neural networks, Mathematical biology.

7. Profile of Mr Jai Ganesh

Mr. Jai Ganesh is currently working as Lead AI Architect at Ericsson, India. He has more than 12 years of experience in various prominent organizations in the field of AI. He has expertise in the field of training various technologies, such as AI, Robotics, Python etc. He has conducted more than 800 workshops including FDP events, Guest lectures, chief guest presentation, International guest lectures in Singapore, Moscow, Germany, Prague etc.

8. Profile of Dr M Sangeetha

Dr.M.Sangeetha is a Professor in Information technology in the Coimbatore Institute of Technology, Coimbatore. She possesses a PhD in Computer Science and Engineering from Anna University, Chennai. Her research interests are Artificial Intelligence, Cyber Security, Data Mining etc. She has expertise in Software Engineering, Cyber Security, Software Testing and Quality Assurance, Data Mining and Data Warehousing, Artificial Intelligence, Cyber Security, Big Data Analytics etc.

9. Profile of Dr Ponnuraja C

Dr. Ponnuraja is a Scientist F in National Institute for Research in Tuberculosis, Indian Council of Medical Research, Chennai. He is a renowned statistician and researcher in Machine learning for Tuberculosis prediction and treatment strategies.

10. Profile of Dr Selvakumar K

Dr. Selvakumar K is an assistant professor in the Department of Computer Applications in National institute of Technology, Trichy. He holds a PhD degree in Computer Science and Engineering, from Anna University, Chennai. He has expertise in AI, OS, High-Performance computing, Computer Organisation and Architecture, Web Technology etc.

The rapid advancement of Machine Learning (ML) is transforming teaching and research across diverse disciplines, including science, engineering, and education. To effectively harness this potential, faculty members must develop a strong conceptual understanding of machine learning techniques along with the ability to apply them in interdisciplinary contexts.

This Faculty Development Programme (FDP) is designed to strengthen interdisciplinary collaboration by equipping faculty members with foundational knowledge, practical skills, and pedagogical strategies in machine learning. The programme will highlight real-world applications across multiple domains and enable participants to explore collaborative problem-solving approaches. It will also enhance faculty competence in integrating machine learning concepts into curriculum design, research projects, and innovative teaching practices.

Python

Coordinator's: Prof. NAGESHWAR RAO RAGI 13697 - Associate Professor Grade 2 - SCOPE
Prof. RAJA DAS 13302 - Associate Professor Sr. - SAS