



VIT

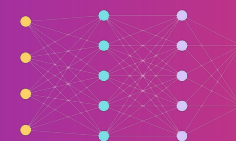
Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

School of Electronics Engineering (SENSE)

Vellore Institute of Technology, Vellore

ONE DAY WORKSHOP ON

Deep Learning and Explainable AI: Concepts, Models and Applications



About VIT

VIT was established with the aim of providing quality higher education on par with international standards. It persistently seeks and adopts innovative methods to improve the quality of higher education on a consistent basis. The campus has a cosmopolitan atmosphere with students from all corners of the globe. Experienced and learned teachers are strongly encouraged to nurture the students. The global standards set at VIT in the field of teaching and research spur us on in our relentless pursuit of excellence. Our Memoranda of Understanding with various international universities are our major strength.



About SENSE

SENSE at VIT was established for imparting state-of-the-art knowledge in Electronics and Communication Engineering and allied areas. The school has set up laboratories with excellent infrastructure in the areas of Electronics, Communication, VLSI, Embedded, Sensors and Nanotechnology. Faculties are actively involved in R&D activities and are working on research projects funded by government organizations like DRDO, ISRO (RESPOND), and DST.



About the Event

This one-day workshop introduces the fundamentals of Deep Learning and Explainable AI, with a focus on CNNs, RNNs, and Explainable Deep Neural Networks. The workshop will also explore the application of deep learning and explainability techniques for DNA signal prediction, providing participants with insights into emerging AI applications in signal and sequence analysis.



Course Content

Session I • 10:00 AM – 1:00 PM

Fundamentals of Deep Learning

- Introduction to Deep Learning and Neural Network Architectures
- CNNs and RNNs: Concepts, Architectures and Applications
- Deep Learning for Image, Signal and Sequence Analysis
- Practical insights into Deep Learning Models and Training

Lunch Break • 1:00 PM – 2:00 PM

Session II • 2:00 PM – 5:00 PM

Explainable AI and Applications

- Introduction to Explainable AI (XAI) and Explainable Deep Neural Networks
- DNA Signals and Sequence Prediction using Deep Learning
- Explainability and Interpretation of DNA Signal Prediction Models



DATE & TIME

24 OCTOBER 2026

10:00 AM – 5:00 PM

Online Mode • Google Meet



Mode of Conduct

Online (Google Meet). The meeting link will be shared with registered participants.



Resource Person

Dr. Chandra Mohan D, Ph.D

Assistant Professor, Dept. of ECE
IIITDM Kurnool, Kurnool,
Andhra Pradesh, India.



Advisory Committee

Dr. Jasmine Pemeena Priyadarisini

Professor and Dean, School of Electronics Engineering, VIT, Vellore.

Dr. Kannadassan D

Professor and Head, Dept. of Communication Engineering, SENSE,
VIT, Vellore.



Coordinators

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Dr. Vijaya Durga Chintala

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Eligibility: Research Scholars, Faculty and UG/PG Students

Registration Fee: Rs. 200 + GST **Register at:** www.events.vit.ac.in

SUPPORTS UN SUSTAINABLE DEVELOPMENT GOALS

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INDUSTRY, INNOVATION AND
INFRASTRUCTURE

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SUSTAINABLE CITIES AND
COMMUNITIES