



VIT

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

One Day Workshop on Building Intelligent Data Systems: AI, Machine Learning & Data Engineering in Practice

9th April 2026

Organized by

School of Computer Science and Engineering
(SCOPE)

Vellore Institute of Technology
Vellore – 632 014



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Head – Department of Software Systems,

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Head – Department of Information Security,

SCOPE

Coordinators:

Dr. M. Anbarasi

Associate Professor, Department of IS, SCOPE

Dr. G. Siva Shanmugam

Associate Professor, Department of SS, SCOPE

CONTENTS OF THE PROGRAMME

- Introduction to Artificial Intelligence, Machine Learning, and Data Engineering
- Experience based learning using Python, Jupyter Notebook/Google Colab, NumPy, Pandas, and Matplotlib
- Perform data preprocessing, cleaning, and Exploratory Data Analysis (EDA)
- Build and evaluate Machine Learning models (Associate rules, Regression, Classification, Clustering)
- Understand core AI and data engineering concepts
- Hands-on experience on data engineering infrastructure and streaming components.

Target Audience:

UG and PG students

Registration:

The participants are requested to register for the workshop through the following link.

<https://events.vit.ac.in/>

Registration fee (Including GST):

UG/PG Students: Rs. 200/-

Last date for registration: 08.04.2026

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 SCOPE

The school has one of the best infrastructures including domain-specific labs associated with the technical departments. The main aim is to produce computing graduates with potential, to design and develop systems involving the integration of software and hardware devices employ innovative approaches in programming and problem solving, and create Large Scale Software Systems. With an objective of developing core competence in the subject matter specializations and special interest groups for learning newer technologies.

The school has formed the following technical departments:

- Department of Database Systems
- Department of Software Systems
- Department of Information Security
- Department of IoT
- Department of Quantum AI

ABOUT WORKSHOP

This workshop is designed to provide participants with a comprehensive, hands-on understanding of how modern data-driven systems are built and deployed. The program begins with an introduction to AI, machine learning, and data engineering concepts using Python and essential tools such as Jupyter Notebook, NumPy, Pandas, and Matplotlib. Participants then progress to data preprocessing and exploratory data analysis, where they learn how to clean, transform, and extract meaningful insights from raw data. Building on this foundation, the workshop introduces applied machine learning techniques, enabling learners to develop and evaluate predictive models. Finally, the session on AI integration with data pipelines focuses on connecting data processing workflows with intelligent models to create scalable, real-world applications. Overall, the workshop emphasizes practical implementation, equipping participants with the skills required to design and build end-to-end intelligent data systems.

- Department of Analytics
- Department of Computational Intelligence

SPEAKERS

Dr. M. Anbarasi
Associate Professor,
Department of IS,
SCOPE.

Dr. G. Siva Shanmugam
Associate Professor,
Department of SS,
SCOPE

For further details contact email:

sivashanmugam.g@vit.ac.in

manbarasi@vit.ac.in

Mobile: +91-7502376741
+91-9488054290

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