



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



**Three Days Workshop on Climate–Health Data
Analysis Using Artificial Intelligence, Time Series &
Predictive Modelling In Python**

25th-27th June 2026

Organized by

**School of Computer Science and Engineering
(SCOPE)**

**Centre for Disaster Mitigation and
Management (CDMM)**

Vellore Institute of Technology

Vellore – 632 014



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Contents of the Programme

- ML Foundations - Supervised & Unsupervised Methods
- Climate Data Retrieval - ERA5, Copernicus CDS & Open Repositories
- Climate Data Ecosystem - Reanalysis Models & Python Pipelines
- Hands-on Lab: Time Series Modelling (Trend, Univariate, Multivariate)
- Hands-on Lab: Climate–Epidemic ML Modelling & Forecasting in Colab
- Weather & Climate Modelling for Health Applications (IMD Perspective)

Target Audience:

Faculty members, Research Scholars, Industry Professionals

Registration:

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

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

Registration fee (Including GST):

- Faculty Members: Rs. 2950/-
- Research Scholars: Rs. 2360/
- Industry Professionals: Rs. 3540/-

Last date for registration: 10.06.2026

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.

About CDMM

The first centre to be set up in India for disaster mitigation and management after the National Disaster Management Act was passed in Parliament in December 2005. The major activities of the centre are Research & Development, Consultancy Services in Disaster Reduction Programs (like., Storage tank protection, Firefighting system design, Industrial Safety, and mapping natural disasters), Innovative Disaster Education Initiatives, Knowledge Networking & Partnerships.

About Workshop

This workshop is a collaborative initiative involving VIT-Vellore, CMC-Vellore, and ICMR under the CLIMB-India (CLIMate Change and Brain Infections in India) CAR project. It delivers hands-on training in machine learning and time series methods for climate-sensitive disease modelling using Python. Participants engage with real epidemiological and climate datasets, retrieve ERA5 and CDS data, develop machine learning prediction pipelines, and examine the impact of climate variables on disease incidence. The three-day programme integrates lectures delivered by various faculty with expert sessions led by invited external specialists.

Speakers

Dr. Satyaban B Ratna

Senior Scientist and Head, IMD, Govt. of India

Ajit Rajiva

Senior Scientist, Ashoka University

Dr. Angel Miraculin

Associate Professor, CMC-Vellore

Dr. Biji CL

Associate Professor, SCOPE, VIT-Vellore

Dr. Surendar M

Associate Professor, CDMM, VIT-Vellore

Dr. Ramkumar T

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