

National Level Online Workshop on “Research Frontiers in Healthcare Analytics with Deep Learning Techniques: A Hands-on Approach using Python”

11th October 2025

Organized by
School of Computer Science and
Engineering (SCOPE)
Vellore Institute of Technology
Vellore – 632 014



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Coordinators:

Dr. P. Suresh, Associate Professor
Department of Database Systems

Dr. B. V. Baiju, Assistant Professor
Department of IoT
SCOPE

Contents of the Programme

- Introduction to Healthcare Analytics
- Deep Learning Techniques and Architectures
 - CNN
 - RNN
 - LSTM
 - Transformers
 - Autoencoders
 - GANs
- Advanced/ Specialized Architecture for Healthcare
- Hands-on Session on Case Studies using Python
- Research Perspectives in DL for Healthcare Analytics

Target Audience:

Faculty members, Research Scholars, 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):

- | | | |
|---------------------|---|-----------|
| • Faculty Members | : | Rs. 300/- |
| • Research Scholars | : | Rs. 200/- |
| • UG/PG Students | : | Rs. 150/- |

Last date for registration: 09.10.2025

ABOUT THE 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 THE SCOPE

The school has one of the best infrastructure 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 Analytics
- Department of Computational Intelligence
- Department of Database Systems

- Department of Software Systems
- Department of Information Security
- Department of IoT

ABOUT THE WORKSHOP

The workshop on “Research Frontiers in Healthcare Analytics with Deep Learning Techniques: A Hands-on Approach using Python” is designed to provide participants with a comprehensive understanding of cutting-edge research trends and practical methodologies in the field of healthcare analytics. Participants will explore the application of deep learning models to real-world healthcare datasets, focusing on tasks such as disease prediction, medical image analysis, and patient outcome forecasting. Through interactive Python-based sessions, attendees will gain practical skills in implementing neural networks, CNNs, RNNs and advanced deep learning architectures tailored for healthcare applications. This workshop aims to bridge the gap between academic research and real-world clinical challenges, empowering researchers, students, and healthcare professionals to contribute effectively to the evolving landscape of AI-driven healthcare solutions.

Speakers

Dr. S.V. Kogilavani

Professor

Department of CSE

National Institute of Technical Teachers

Training and Research (NITTTR), Chennai.

Mr. Aravind Rangaraju

Principal Specialist

Temenos India Pvt Ltd

Bengaluru.

Dr. J. Naveen Kumar

Associate Professor Sr.

School of Computer Science and

Engineering,

VIT, Vellore.

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