

## ADDRESS FOR CORRESPONDENCE:

### Organizing Secretaries:

#### Dr. Vijayaprakaran K.

Assistant Professor Senior  
School of Computer Science Engineering (SCOPE)  
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## About the FDP

This FDP aims at highlighting the applications of Machine Learning in recent times. The FDP sessions would provide an ideal platform for researchers interested in the field of Machine Learning to update knowledge and help them address real-world problems. This FDP will also facilitate hands-on sessions in Python. Upon completion of the programme, the participants will be acquainted with real world problems related to machine learning and deep learning applications.

## Topics to be covered

- Introduction to AI Machine Learning and its applications
- Mathematical foundation for Machine learning
- Supervised and unsupervised learning methods
- Statistical pattern recognition
- Reinforcement Learning
- Neural Networks & Deep Learning Models
- Computer Vision (CV) and its applications
- CNN Architectures for CV

- Natural Language Processing
- NLP and Computer vision libraries
- Case studies on applications of CV

## Resource Persons:

1. Dr. Syed Ibrahim S. P.  
Professor, VIT Chennai
2. Dr. Pradeep Kumar T. S.  
Professor, VIT Chennai
3. Dr. Renta Chintala Bhargavi  
Professor, VIT Chennai
4. Dr. Sathiyamurthy K.  
Associate Professor, PTU Puducherry
5. Prof. Rajesh Kumar  
Associate Professor, VIT Chennai
6. Dr. Alok Chauhan  
Associate Professor, VIT Chennai
7. Dr. Rabindra Kumar Singh  
Associate, VIT Chennai
8. Dr. Bikram Kumar  
Associate Professor, KLEF University  
Vijayawada
9. Dr. Kalyani Deskian  
Sr. Professor, VIT Chennai
10. Dr. Vanchinathan  
Sr Professor, VIT Chennai
11. Dr. Pravin Kashyap  
Natfirst, Hyderabad
12. Dr. Gajendra Kumar Vishwakarma  
Professor, IIT Dhanbad.

## TARGET AUDIENCE:

This FDP is mainly intended for Computer Science engineers, scientists, research scholars, academicians, business administrators, industrialists, postgraduate and undergraduate students.



# VIT<sup>®</sup>

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

## A Five-Day Online FDP

on

**Recent Advances and Future Trends in  
Artificial Intelligence, Computer Vision and  
NLP**

*26<sup>th</sup> to 27<sup>th</sup> March 2023*

&

*1<sup>st</sup> to 3<sup>rd</sup> April 2023*



## REGISTRATION FORM:

<https://forms.gle/Tm6N5eZXW77DBgAE8>

## REGISTRATION FEE:

Student/Research Scholar: Rs. 250/-

Faculty/ Industry Person: Rs. 300/-

E Certificate will be provided for those who attend all the sessions.





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**Organized by  
Dr. Vijayaprakaran K. (SCOPE) &  
Dr. Pankaj Shukla (SAS)**

**Vellore Institute of Technology (VIT) Chennai**

**VIT - A place to learn; A chance to grow**

## **ABOUT VIT CHENNAI:**

VIT has made a mark in the field of higher education in India by providing quality education on par with institutions of international standards, through its 38 years of existence in a cross-cultural ambience with extensive application-oriented research. VIT was founded in 1984 by Dr. G. Viswanathan, a former parliamentarian and Minister in the Tamil Nadu Government, as a self-financing institution called Vellore Engineering College. Since then, the institution has grown from strength to strength. Conferred upon the status of Deemed to be university in 2001 by MHRD, VIT currently offers UG, PG and Research programmes on its four campuses at Vellore, Chennai, Bhopal and Amaravati.

## **ABOUT VIT CHENNAI:**

VIT Chennai 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. Our Memoranda of Understanding with various international universities are our major strength. They provide for an exchange of students and faculty and encourage joint research projects for the mutual benefit of these universities.

VIT Chennai is a globally engaged, competitive, comprehensive and research-enriched university campus strategically positioned in the capital city of Tamil Nadu, to respond to major industrial, social, economic and environmental demands and challenges. VIT Chennai is ably spearheaded by the Vice Presidents Mr. Sankar Viswanathan, Dr. Sekar Viswanathan, Mr. G.V. Selvam and Ms. Kadhambari S. Viswanathan, Assistant Vice President, Dr. Rambabu Kodali, Vice Chancellor and Dr. V. S. Kanchana Bhaaskaran, Pro-Vice Chancellor of VIT Chennai.

The focus of the university is:

- To maximize the Industrial Connectivity
- To create Centres of Excellence in contemporary areas of research
- To enrich technological and Managerial Human Capital nurtured in a multicultural ambience
- To provide a common platform for the agglomeration

of ideas of personnel from various walks of life for learning

- To create opportunities and exploit the available resources to benefit industry/society
- To encourage participation in the National Agenda of knowledge building
- To foster international collaborations for mutual benefits in areas of research

## **ABOUT THE SCHOOL:**

### **SCOPE:**

The School of Computer Science and Engineering (SCOPE) was established in the year of 2010 at VIT Chennai. The School imparts the state-of-the-art education, training and research in the field of Computer Science and allied areas UG, PG and Ph.D.

Programmes. □

- B.Tech. Computer Science & Engg.
- B.Tech. CSE with Specialisation in AI and ML □
- B.Tech. CSE with Specialisation in Cyber Physical Systems □
- B.Tech. CSE with Specialisation in AI and Robotics □
- M.Tech. Software Engineering
- M.Tech. CSE with Specialisation in Business Analytics
- M.Tech. CSE with Specialisation in AI and ML □
- M.Tech. CSE with Specialisation in Cyber Physical Systems
- M.Tech. Computer Science & Engg. □
- M.Tech. CSE with Specialisation in Big Data Analytics
- Master of Computer Applications
- Ph.D. Programmes in the domain of Computer Science and Engineering

### **SAS:**

The School of Advanced Sciences (SAS) at VIT Chennai comprises Divisions of Mathematics, Physics and Chemistry. It offers the following programmes:

- Ph.D. Physics/Chemistry/Mathematics /Geology
- M.Sc. Physics/Chemistry/Data Science
- B.Sc. Mathematics & Computing
- B.Sc. Double Major
  - Physics and Chemistry
  - Chemistry and Mathematics
  - Mathematics and Physics

The school also offers a plethora of core and elective courses facilitating B.Tech., M.Tech., MCA. Management and Law programmes.