



**Sri Venkateswara College of Engineering & Technology (Autonomous)**  
**R.V.S. Nagar, Tirupati Road, Chittoor - 517127. Andhra Pradesh.**

## 5 DAY FACULTY DEVELOPMENT PROGRAMME

ON

# MODERN CYBERSECURITY

## WITH AI & ML

(27-03-2025 to 31-03-2025)

ORGANIZED BY

**DEPARTMENT OF MCA**

DAY 1 (27-03-2025)



**Dr. N. Vijarajan, Professor**  
Department of IoT,  
School of CSE,  
VIT, Vellore

Topics:

**Session 1:** Core Concepts of AI & ML

**Session 2:** Machine Learning for Predictive Modeling

DAY 2 (28-03-2025)



**Dr. J. Anuradha, Professor**  
Department of Database Systems,  
School of CSE,  
VIT, Vellore

Topics:

**Session 1:** Natural Language Processing (NLP) using Python  
and NLTK

**Session 2:** Concepts and Implementations of AI & ML in NLP  
with Python

DAY 3 (29-03-2025)



**Dr. M. Iyapparaja**  
Professor & HOD  
Department of Smart Computing,  
School of CSE & IS,  
VIT, Vellore

Topics:

**Session 1:** Intelligent Systems: Expert Systems and Decision  
Support Systems

**Session 2:** AI-powered Data Analytics: Tools and Techniques

DAY 4 (30-03-2025)



**Mr. Aravind Perumal**  
Senior vice-president,  
Temenos India Pvt Ltd,  
Chennai

Topics:

**Session 1:** Cybersecurity Essentials: Detecting and Preventing  
Threats with AI

**Session 2:** Hands-on: Recommender Systems for Cybersecurity

DAY 5 (31-03-2025)



**Dr. A. B. Feroz Khan,**  
Assistant Professor/ Research Supervisor,  
Department of Computer Science,  
Syed Hameedha Arts and Science College,  
Kilakarai, Tamil Nadu, India

Topics:

**Session 1:** Computer Vision: Image Processing and Object  
Detection

**Session 2:** AI Ethics and Bias: Ensuring Responsible AI  
Development

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**CONTACT US**

Co-ordinators:

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**Mr. N. Sendhil Kumar**  
Dean TSD  
Co-Convenor

**Dr. R. Hamsaveni**  
HOD MCA  
Convenor

**Dr. M. Mohan Babu**  
Principal  
Patron

**Sri. R. V. Srinivas**  
Vice-Chairman  
Chief-Patron



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## OBJECTIVES

**SESSION 1: CORE CONCEPTS OF AI & ML**

- INTRODUCTION TO ARTIFICIAL INTELLIGENCE
- MACHINE LEARNING BASICS
- REAL-WORLD APPLICATIONS

**SESSION 2: MACHINE LEARNING FOR PREDICTIVE MODELING**

- UNDERSTANDING REGRESSION TECHNIQUES
- CLASSIFICATION MODELS IN ACTION



CIVIL E-CLASSROOM

DAY 1:  
27-03-2025



**RESOURCE PERSON**

Dr. V. Vijayarajan,  
PROFESSOR , IOT DEPARTMENT,  
SCHOOL OF CSE,  
VIT, VELLORE

## AI in Modern Cybersecurity



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DAY 2:  
28-03-2025



Resource person

Dr J Anuradha,  
Professor  
Department of Database Systems,  
School of CSE,  
VIT, Vellore

**OBJECTIVE**

- 🔊 SESSION 1: NATURAL LANGUAGE PROCESSING (NLP) USING PYTHON AND NLTK
  - INTRODUCTION TO NLP CONCEPTS AND APPLICATIONS
  - HANDS-ON PRACTICE WITH NLTK FOR TEXT PROCESSING
- 🔊 SESSION 2: CONCEPTS AND IMPLEMENTATIONS OF AI & ML IN NLP WITH PYTHON
  - IMPLEMENTING AI & ML TECHNIQUES IN NLP
  - BUILDING NLP MODELS FOR REAL-WORLD APPLICATIONS

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RESOURCE PERSON

Dr. M.IYAPPARAJA  
Professor & HOD  
Department of Smart Computing,  
School of CSE & IS,  
VIT,Vellore

DAY 3:  
29-03-2025

## OBJECTIVE

### SESSION 1: INTELLIGENT SYSTEMS: EXPERT SYSTEMS AND DECISION SUPPORT SYSTEMS

- ▶ UNDERSTAND THE ROLE OF EXPERT SYSTEMS AND DECISION SUPPORT SYSTEMS IN DECISION-MAKING
- ▶ EXPLORE REAL-WORLD APPLICATIONS

### SESSION 2: AI-POWERED DATA ANALYTICS: TOOLS AND TECHNIQUES

- ▶ LEARN KEY AI-DRIVEN ANALYTICS TOOLS FOR DATA PROCESSING
- ▶ APPLY ML TECHNIQUES FOR INSIGHTS AND PREDICTIONS

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DAY 4:  
30-03-2025

## OBJECTIVE

🔊 SESSION 1: CYBERSECURITY ESSENTIALS: DETECTING AND PREVENTING THREATS WITH AI

- LEARN AI-BASED THREAT DETECTION AND PREVENTION
- UNDERSTAND ANOMALY DETECTION AND PREDICTIVE SECURITY

🔊 SESSION 2: HANDS-ON: RECOMMENDER SYSTEMS FOR CYBERSECURITY

- APPLY RECOMMENDER SYSTEMS IN CYBERSECURITY
- BUILD ML-BASED SECURITY RECOMMENDATIONS

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Mr. Aravind Perumal,  
Senior vice-president,  
Temenos India Pvt Ltd,  
Chennai.

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# 5 DAY FACULTY DEVELOPMENT PROGRAMME ON **MODERN CYBERSECURITY WITH AI & ML**

**DAY 5:  
31-03-2025**

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## **OBJECTIVES:**

### **📢 SESSION 1: COMPUTER VISION: IMAGE PROCESSING AND OBJECT DETECTION**

- UNDERSTAND IMAGE PROCESSING TECHNIQUES FOR FEATURE EXTRACTION
- EXPLORE OBJECT DETECTION MODELS LIKE YOLO AND FASTER R-CNN

### **📢 SESSION 2: AI ETHICS AND BIAS: ENSURING RESPONSIBLE AI DEVELOPMENT**

- IDENTIFY ETHICAL CHALLENGES LIKE BIAS AND FAIRNESS IN AI
- LEARN STRATEGIES TO MITIGATE BIAS AND ENSURE RESPONSIBLE AI

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**RESOURCE PERSON**

**Dr.A.B.Feroz Khan,**  
Assistant Professor/ Research Supervisor,  
Department of Computer Science ,  
Syed Hameedha Arts and Science College,  
Kilakarai, Tamil Nadu, India



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