DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

REPORT - SEMINAR ON "Making AI Understandable: Explainable and Interpretable AI for Everyone"

Title: Seminar on "Making AI Understandable: Explainable and Interpretable AI for Everyone"

Date: 30th January 2026

Venue: Intel Lab, AVIT, Chennai Campus

Resource Person: Dr Muthukumaran M, Professor, Department of Computer Science and Engineering, Aarupadai Veedu Institute of Technology, Vinayaka Mission's Research Foundation (Deemed to be University), Chennai

Organized By: Department of Computer Science and Engineering with AI Nexus Club & IIC

Category: As part of Silver Jubilee year Celebrations & AICTE "AI FOR ALL"

Introduction

As part of the VMRF Silver Jubilee Year celebrations and in line with the AICTE "AI for ALL – Human Capital for an AI-Ready Workforce" initiative, the Department of Computer Science and Engineering in association with the AI Nexus Club organized a seminar titled "Making AI Understandable: Explainable and Interpretable AI for Everyone."

With Artificial Intelligence increasingly influencing decision-making in sensitive domains such as healthcare, finance, and governance, the need for transparent, explainable, and interpretable AI systems has become critical. This seminar focused on demystifying AI models by explaining how decisions are made, interpreted, and validated, thereby building trust and accountability in AI systems.

The session attracted active participation from students and faculty members and emphasized the importance of responsible and ethical AI adoption.

Objective of the Workshop

- To introduce the concepts and importance of Explainable AI (XAI) and Model Interpretability.
- To help participants understand why transparency and trust are essential in AI systems.
- To explain different approaches and techniques used for AI explainability.
- To demonstrate how explainable models support ethical, fair, and accountable AI deployment.
- To align technical learning with the AICTE AI for ALL vision, making AI accessible to all learners.
- To encourage students to design human-centric and interpretable AI solutions.

Outcomes

- Participants gained a clear understanding of Explainable and Interpretable AI concepts, enhancing their core engineering knowledge.
  (Mapped PO: PO1 – Engineering Knowledge)
- Students developed the ability to analyze AI model behavior and decision-making processes, improving analytical thinking.
  (Mapped PO: PO2 – Problem Analysis)
- The seminar enabled learners to design AI solutions with transparency and interpretability, fostering responsible system development.
  (Mapped PO: PO3 – Design/Development of Solutions)
- Participants learned to use modern AI tools and techniques that support explainability and interpretability.
  (Mapped PO: PO5 – Modern Tool Usage)
- Awareness was created about the societal, ethical, and legal implications of opaque AI systems, promoting ethical responsibility.
  (Mapped PO: PO6 – Engineer and Society)
- The session encouraged self-learning and continuous professional development in emerging AI paradigms.
  (Mapped PO: PO12 – Life-long Learning)

Key takeaways

- Explainable AI is essential for building trust and acceptance of AI systems.
- Interpretability helps stakeholders understand how and why AI decisions are made.
- Transparent AI systems are critical in high-stakes applications such as healthcare and finance.
- Ethical AI development requires balancing performance, fairness, and explainability.
- Students should adopt responsible AI practices while developing intelligent systems.
- Explainability will play a key role in future AI regulations and standards..

Coordinator HoD/CSE

AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY
Vinayaka Missions Chennai Campus

DIAMOND
QS I-GAUGE
INDIAN COLLEGE RATINGS

AI NEXUS CLUB

Day 3 30 January 2026

Topic

Making AI Understandable: Explainable and Interpretable AI for Everyone

Resource Person

Dr. M. Muthukumaran
Professor
Department of CSE
AVIT

10:00 AM - 12:00 PM

Smart Classroom, AVIT

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Logistic Regression


Introduction to AI in Healthcare
What is Artificial Intelligence (AI)?
•Definition: AI refers to the simulation of human intelligence in machines that are capable of performing tasks such as learning, reasoning, and problem-solving.
•Key Subfields in Healthcare Context:
Machine Learning (ML): Models that learn patterns from data (e.g., patient records, scans).
Computer Vision: Interpreting medical images like X-rays and MRIs.
Robotics: Surgical robots, rehabilitation assistants.
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