



A Seminar on

Explainable artificial intelligence (XAI)

Dr. Akash Waghmare

Computer Engg.

Activity Report

Academic Year	2024-25
Program Driven by	
Quarter	III
Program / Activity Name	Capacity Building Program
Program Type	
Program Theme	Innovation and startups
Start Date	15-03-2025
End Date	15-03-2025
Duration of the Activity (in Mins)	60
Number of Student Participant	0
Number of Faculty Participant	70
Number of external Participant	
Expenditure Amount in Rs.	
Any Remark	
Mode of Session Delivery	Offline
Objective	
Benefit in terms of Learning / Skills /	
Knowledge obtained	
Feedback	
Video url (mp4)	
Photograph 1 (jpg)	Attached
Photograph 2 (jpg)	Attached
Overall report of the Activity (pdf)	As given below

Dr. P. H. Zope Convener IIC





Seminar Report

Title:

Explainable Artificial Intelligence (XAI)

Speaker:

Dr. Akash Waghmare

Date:

[15-03-25]

Venue:

[SSBT COET Bambhori]

1. Introduction

A seminar titled **"Explainable Artificial Intelligence (XAI)"** was conducted by **Dr. Akash Waghmare**, an esteemed researcher in AI and machine learning. The seminar focused on the increasing importance of transparency and trust in AI systems, particularly in high-stakes applications like healthcare, finance, and law. With AI models becoming more complex, the need for interpretability and explanation has become critical — a theme that was deeply explored during the session.





2. Objectives of the Seminar

- To understand the concept and need for explainable Al.
- To differentiate between traditional "black-box" AI models and interpretable models.
- To explore various techniques and tools used in XAI.
- To analyze real-world applications where XAI is essential.
- To highlight the challenges and future scope of XAI research.

3. Highlights of the Seminar

a. What is XAI?

Dr. Waghmare explained that Explainable AI refers to methods and techniques in AI that make the results of the models understandable to humans. Unlike traditional deep learning models which often operate as "black boxes," XAI aims to provide insights into **why** and **how** a decision was made.

b. Importance of XAI

- **Trust and Transparency:** Users and stakeholders must trust AI systems, especially in domains like healthcare, criminal justice, and finance.
- **Debugging and Improvement:** Developers can refine models more effectively with better understanding.
- Ethical and Legal Compliance: Interpretability is key to adhering to regulations like the GDPR which mandates "right to explanation."

c. XAI Techniques Discussed

Dr. Waghmare presented various XAI techniques:

- Model-specific vs. Model-agnostic methods
- Local vs. Global Interpretability
- Feature Importance Techniques (e.g., SHAP, LIME)
- Visualization Tools (e.g., saliency maps for CNNs)
- Surrogate Models (e.g., decision trees to approximate complex models)

d. Real-world Applications

He shared compelling examples of XAI in:

- Healthcare: Explaining why an AI model predicts a certain disease.
- Banking: Transparency in credit scoring models.
- Autonomous Vehicles: Understanding decision processes in navigation and object detection.





e. Challenges in XAI

- Balancing accuracy and interpretability
- Risk of misleading explanations
- Domain-specific complexities
- Lack of standardization in XAI tools

4. Interactive Session

The seminar included an interactive Q&A where participants posed insightful questions on:

- Choosing between accuracy and explainability
- XAI in AI-powered recommendation systems
- Role of XAI in preventing algorithmic bias

Dr. Waghmare also suggested tools and platforms for students and researchers to experiment with, such as **Google's What-If Tool**, **ELI5**, and **SHAP libraries**.

5. Conclusion

Dr. Akash Waghmare concluded the seminar by stressing that **Explainable Al is not just a technical need, but a societal one.** As Al becomes more pervasive, understanding its reasoning will be crucial to ensure accountability, fairness, and widespread adoption. The session was highly informative, fostering awareness and interest in responsible Al development.

















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