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Guest Lecture on "The 4 Fundamental EVALs: A Framework for Data Model Integrity"

The department of **Computer Science and Engineering (Data Science)** in collaboration with the **Department of AIML** and the **Department of Computer Science and Design** organised a **Guest Lecture** titled **"The 4 Fundamental EVALs: A Framework for Data and Model Integrity"** on **30-08-2025** at **10.30 AM**, in **MVJ Auditorium**.

Objectives of the Event

The objectives of the event were as follows:

- To emphasise the importance of evaluation in building trust, safety, and reliability in AI and machine learning systems.
- To give participants an understanding of how observability and anomaly detection strengthen software systems.
- To address the challenges of data drift and model drift in ML.
- To explore how large language models (LLMs) are evaluated for alignment, safety, and accuracy, using different approaches ranging from human evaluation to automated frameworks.
- To equip participants with knowledge of effective evaluation practices and emerging methods in AI model governance through practical examples, demonstrations, and discussions on future trends.

Event Overview

The event commenced at 10.30 AM with a welcome address, followed by an engaging session by **Mrs. Sweta Satpathy, Tech Entrepreneur, AI/ML Engineer**. Her presentation highlighted the important themes in Artificial Intelligence and Machine Learning, offering valuable knowledge and practical perspectives. The students were highly attentive and actively took part in the interactive discussions.

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Day	Time	Session Details
Saturday, August 30 2025	10 - 11 am	Welcome Address
	11 am - 12.30 pm	Session on "The 4 fundamental EVALs"

Table 1: Schedule of the Event

Figure 1: The chief guest interacting with the participants

(a) Students and faculty members attending the session

(b) Invocation and Welcome Address by students

Outcomes and Impact

The session enabled students to gain a clear understanding of the importance of evaluation in Artificial Intelligence and Machine Learning. They learned how observability, anomaly detection, data drift, and model drift play a crucial role in ensuring reliability and fairness in AI systems. Through practical demonstrations and discussions, participants became familiar with modern evaluation techniques for machine learning models and large language models. Overall, the session enriched their knowledge, sparked curiosity, and encouraged them to think critically about the responsible development and governance of AI technologies.

Conclusions

The session proved to be highly informative and thought-provoking, giving students a deeper appreciation of the role of evaluation in Artificial Intelligence and Machine Learning. Sweta Satpathy's expertise and practical insights helped participants connect theoretical concepts with real-world applications. The interactive discussions and live demonstrations created an engaging learning environment that encouraged students to think beyond textbooks. Overall, the programme was a meaningful experience that broadened perspectives and inspired participants to explore AI with greater curiosity and responsibility.

Report by: Prof. Swagatika Satpathy

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