St. Joseph's College of Engineering and Technology

Elupatti, Thanjavur-613403

Report on Faculty Research Seminar Presentation Session

Name of the Event	**:**	Internal Guest Lecture on "Introduction to machine learning"
Organizing Department	**:**	ECE
Co-Ordinator	**:**	Dr. A. Backia Abinaya, AP/ECE
Date of the Event	**:**	05.09.2023
Resource Person	**:**	Dr. R. Meera, AP/ECE St. Joseph College of Engineering and Technology, Thanjavur.
Targeted Audience	**:**	III & IV year students and faculties
No. of. Participants	**:**	48
Venue	**:**	Main Block Seminar Hall

PROGRAMME DETAILS:

The "Introduction to Machine Learning" session gave a thorough rundown of this quickly developing area of artificial intelligence. A subfield of artificial intelligence called machine learning enables computers to learn from data and enhances task performance without explicit programming. Beginning with an explanation of the essential ideas—supervised, unsupervised, and reinforcement learning—the seminar then went on to show examples of their use in various practical contexts. Developing methods and models that allow computers to recognize patterns and make predictions without explicit programming is at the heart of machine learning. From tailored content recommendations on streaming services to the automation of difficult jobs in sectors like healthcare, banking, and manufacturing, this technology has permeated every aspect of our daily lives.

The session also covered the significance of feature engineering, model validation, and data pretreatment in the machine learning pipeline. It also covered the difficulties and ethical issues surrounding machine learning, emphasizing the necessity for responsible AI research. Overall, the seminar gave participants a firm grounding in the topic of machine learning and laid the platform for future research.

SCREENSHOT:

Figure 1: Dr. Meera presenting

Figure 2: Attendees taking notes on the lecture taken by Dr. Surendar on the topic antenna applications

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