Maharaja Surajmal Institute of Technology, New Delhi-110058

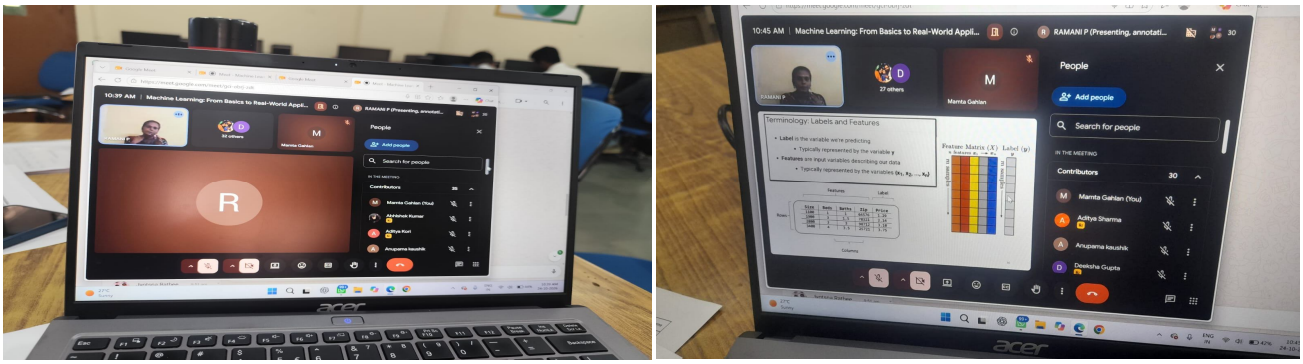
Department of Information Technology

Webinar Report

Topic Name	Machine Learning: From Basics to Real-World Applications
Type of Activity	Webinar
Mode, Date and Time	Online (Google Meet), 24 October 2026, 10:00 AM – 11:00 AM
Target Audience	Final Year B.Tech. (IT) Students
Attended Participants	Online participation
Name of the Expert	Dr. P. Ramani, Associate Professor, Department of ECE, SRM Institute of Science and Technology, Ramapuram, Chennai
Organized by	Department of Information Technology, MSIT

The Department of Information Technology, Maharaja Surajmal Institute of Technology, New Delhi, organized an online guest lecture / webinar on *"Machine Learning: From Basics to Real-World Applications"* on *24 October 2026 for final-year B.Tech. (IT) students*. The resource person was *Dr. P. Ramani, Associate Professor, Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai*. The session was intended to connect fundamental concepts of machine learning with their practical use in data-driven applications.

During the session, the speaker explained the basic terminology used in machine learning, with particular attention to features and labels. The presentation also covered supervised learning, supported by a process diagram illustrating labelled examples, algorithm training and the generation of predictions. Through these explanations, students could relate familiar concepts such as data tables, input attributes and expected outputs to the broader workflow of a machine-learning system.



Screenshots from the online session showing the resource person and supervised-learning Presentation

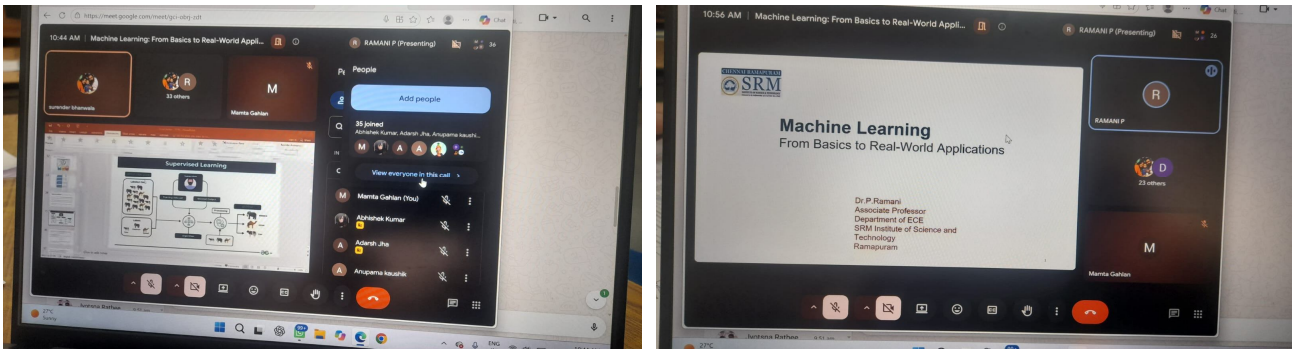
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The discussion highlighted why it is necessary to identify the correct input features and target labels before selecting or training a model. The examples shown in the presentation provided a useful foundation for understanding classification and prediction problems. Students were introduced to the idea that a machine-learning model learns patterns from examples and then applies those learned patterns to new inputs.

The webinar was relevant to final-year IT students, particularly those exploring projects involving data analysis, intelligent software systems and predictive applications. It reinforced the connection between programming, data representation and the design of machine-learning solutions. The presentation format, including explanatory diagrams and example datasets, made the terminology easier to follow.

Overall, the webinar offered students a useful introduction to the building blocks of machine learning and their role in practical applications. The Department of Information Technology expresses its sincere thanks to Dr. P. Ramani for accepting the invitation and sharing her knowledge with the students.



Screenshots showing the discussion of features and labels and participation through Google Meet

Ms. Mamta Ghalan and Surender Singh
Assistant Professor, IT Department