

A Report on
One Day Hackshop on Machine Learning

Date: 29 March 2025
Time: 10:00 am-05:00pm
Venue: AV Room, ECE Department, SCET
Student coordinators: Devanshi Jethwa, Rajnidhi Gupta
Faculty coordinators: Prof.(Dr) Nehal Shah
Prof.(Dr) Maulin Joshi

Speakers / Resource Person **Dr. Pratik Shah**, Assistant Professor in the Department of Computer Science and Engineering at IIIT Vadodara. Dr. Shah, an expert in artificial intelligence, geometry processing, natural language processing, computational music, and cognitive aspects of Indian classical music, shared his extensive knowledge with the attendees. His session covered both theoretical concepts and practical applications, enriching the participants' understanding of the subject.

About Event: The One-Day Machine Learning Hackshop was successfully conducted at Sarvajani College of Engineering and Technology, Surat, bringing students and researchers for an engaging and insightful learning experience. The event was conducted in association with IETE Surat Subcenter and IEEE CIS Chapter GS. Hackshop aimed to provide participants with hands-on exposure to machine learning concepts, and fostering innovation and collaboration in the field of artificial intelligence.

The hackshop began with a warm welcome and an introduction to the day's agenda. The hackshop featured an expert session by Dr. Pratik Shah, who delivered an in-depth lecture covering both theoretical and practical aspects of machine learning. Journey of Hackshop was started with collecting real data at various locations in the campus of SCET. Participants in a group of 3 visited various places and captured images. Database was automatically capturing additional details like GPS location of the place and sounds from the surrounding. In the post lunch session, these data were used for classification and clustering.

Throughout the day interactive sessions included discussions, real-

world applications, and hands-on exercises, providing attendees with a comprehensive understanding of the subject. The event saw enthusiastic participation from SCET and DDU Nadiad, with 25 attendees actively engaging in problem-solving activities and discussions.

Key Highlights of the event:

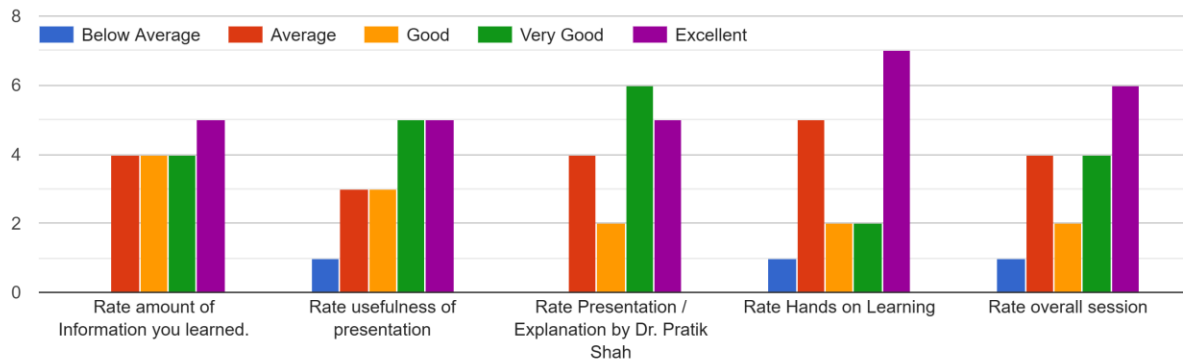
- In-depth lecture by Dr. Pratik Shah on the fundamentals and advancements in machine learning.
- Hands-on exercises focusing on real-world applications.
- Interactive Q&A session allowing participants to clarify doubts and gain deeper insights.
- Active engagement from attendees, fostering a collaborative learning environment.

Major Outcome:

- Participants gained in-depth understanding of machine learning concepts through an expert session.
- Attendees engaged in a unique data collection activity on campus, capturing images enriched with GPS and audio data.
- Participants applied classification and clustering task on collected dataset.

Participants Feedback:

Rate Learning during the Hackshop - Machine Learning



Photographs:







Sarvajanik College of Engineering and Technology, Surat



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**Electronics and Communication Engineering
Department**
Organizes



ONE DAY HACKSHOP ON MACHINE LEARNING

in association with IEEE CIS Chapter, GS and IETE Surat sub-center



Speaker: Prof. Pratik Shah
IIIT Vadodara

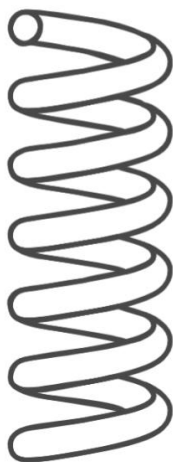
Registration Fees:

- IETE / IEEE CIS Members: ₹50
- Non-Members: ₹150
- Other College Students: ₹200

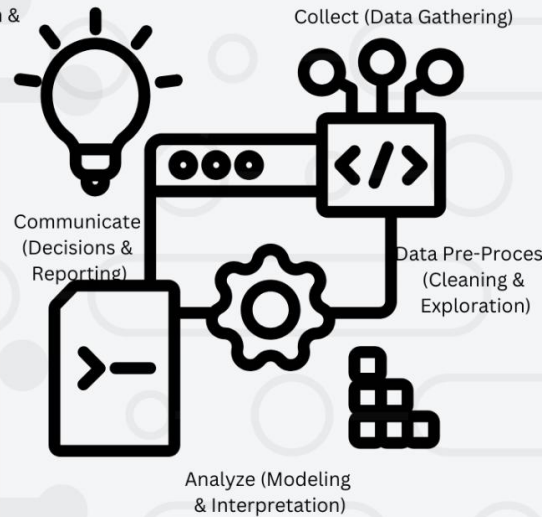
Define (Problem &
Objectives)

Collect (Data Gathering)

Data Analysis Hackshop Schedule



- Campus Wide Data Collection
- Choose Clustering Algorithm
- Choose Classification Method
- Access Dataset
- Participants Select Tasks
- Hack Begins



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Venue : EC AV Room

STUDENT COORDINATOR

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