



Short-term value-added course on
“ML applications for real world problems”

Training Completion Report

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Workshop Title: ML applications for real world problems

Dates: 15-09-2026 to 18-09-2026 & 29-09-2026

Venue: CoE-Robotics & PLC,PG Block

Mode: Offline

Target Audience: Engineering Students (III year CSE)

No. of Participants: 59

Trainer: Ms. Sivaranjani, Centre Head(ESDM),CoE-Robotics & PLC
Mr.Naresh, Associate Trainer, CoE-Robotics & PLC

TRAINING OBJECTIVES

- Understand core Machine Learning concepts and types (supervised, unsupervised, reinforcement learning)
- Handle, preprocess, and visualize real-world data using Python libraries
- Build and evaluate regression and classification models
- Apply clustering and dimensionality reduction techniques for pattern discovery
- Develop end-to-end machine learning solutions for real-world applications

TOPICS COVERED

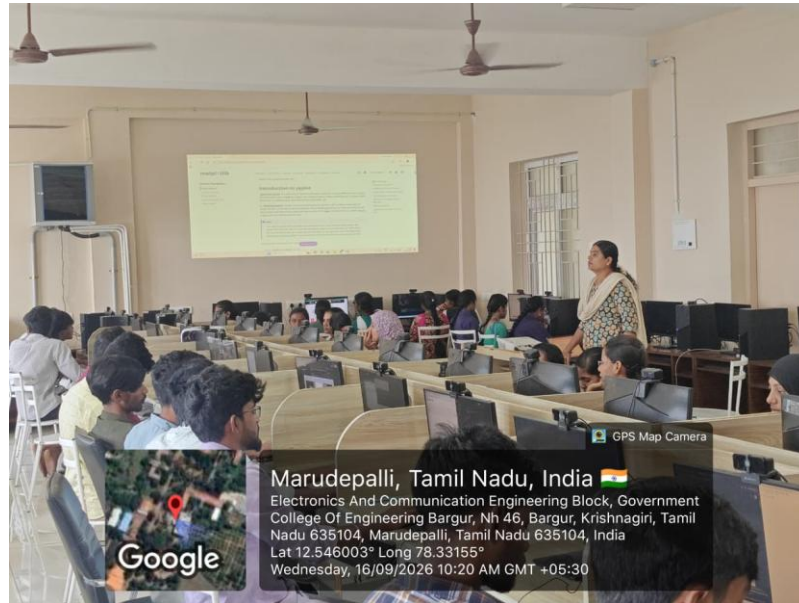
- Day 1: Fundamentals of Machine Learning & Python for Data Handling
- Day 2: Supervised Learning – Regression Techniques
- Day 3: Supervised Learning – Classification Techniques
- Day 4: Unsupervised Learning – Clustering & Dimensionality Reduction
- Day 5: Capstone Project – End-to-End Machine Learning Implementation

STUDENT PARTICIPATION



- Active engagement across all five days
- Hands-on coding and debugging sessions
- Real-time interaction and doubt clarification
- Collaborative learning environment
- Successful completion of mini-projects by participants

TRAINING SESSION GLIMPSES





HIGHLIGHTS

Interactive Learning: Students actively participated in hands-on exercises

Practical Exposure: Developed real-time ML-based applications

Peer Learning: Students collaborated in solving logical and coding challenges

Project-Based Approach: End-to-end ML problem solving experience

Data-Driven Insights: Visualization of real datasets using charts

OUTCOMES

- Understand and explain core concepts of Machine Learning and its types
- Build and evaluate regression, classification, and clustering models using Python
- Perform data preprocessing, analysis, and visualization on real-world datasets
- Apply appropriate ML algorithms to solve practical problems
- Develop and present an end-to-end machine learning project with evaluation outcomes

CLOSING CEREMONY



FEEDBACK
COLLECTION SESSION



CLOSING REMARKS BY
RESOURCE PERSON

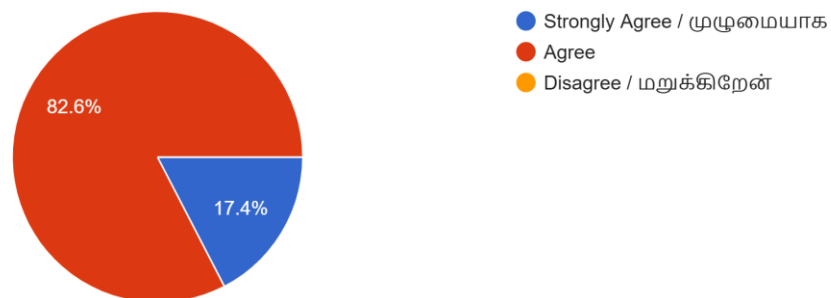


GROUP PHOTO WITH
PARTICIPANTS

FEEDBACK RECEIVED FROM PARTICIPANTS

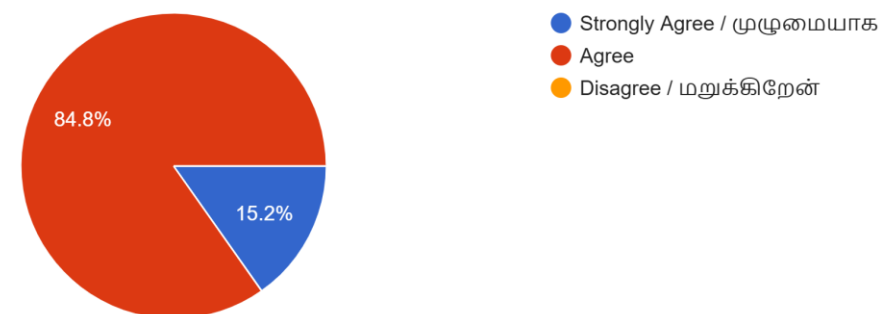
The objectives of the workshop were clearly defined. பயிற்சியின் நோக்கங்கள் தெளிவாக விளக்கப்பட்டன.

46 responses



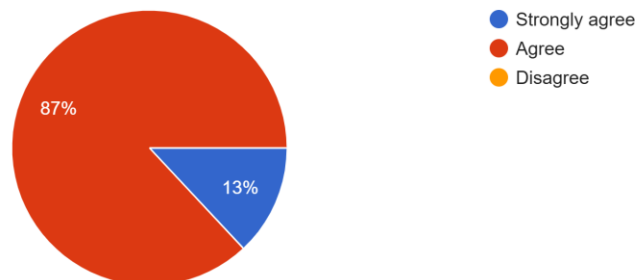
The content was relevant and easy to follow. பயிற்சியின் உள்ளடக்கம் பொருத்தமானதும், எளிமையானதும் இருந்தது.

46 responses



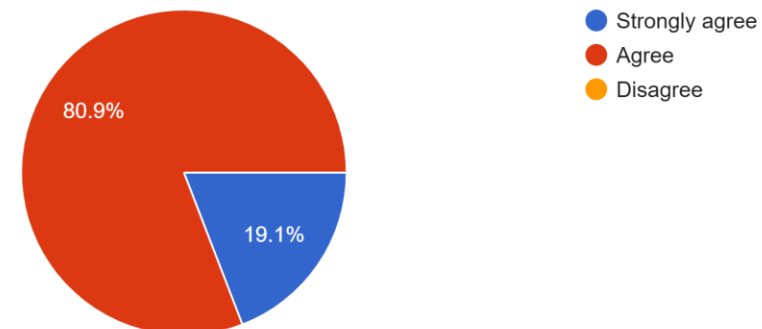
The hands-on activities helped in understanding the concepts better. நடத்தப்பட்ட அனுபவங்கள் கருத்துகளைப் புரிந்துகொள்வதில் உதவின.

46 responses



The resource persons were knowledgeable and clear in their explanations. வழிகாட்டுநர்கள் நுண்ணறிவும் தெளிவான விளக்கமும் வழங்கினர்.

47 responses



FEEDBACK RECEIVED FROM PARTICIPANTS

What did you like most about this workshop?

இந்த பயிற்சியில் மிகவும் பிடித்த விஷயம் என்ன?

47 responses

Nothing

Practical examples

Time management

Project

I liked overall experience

Working with module.

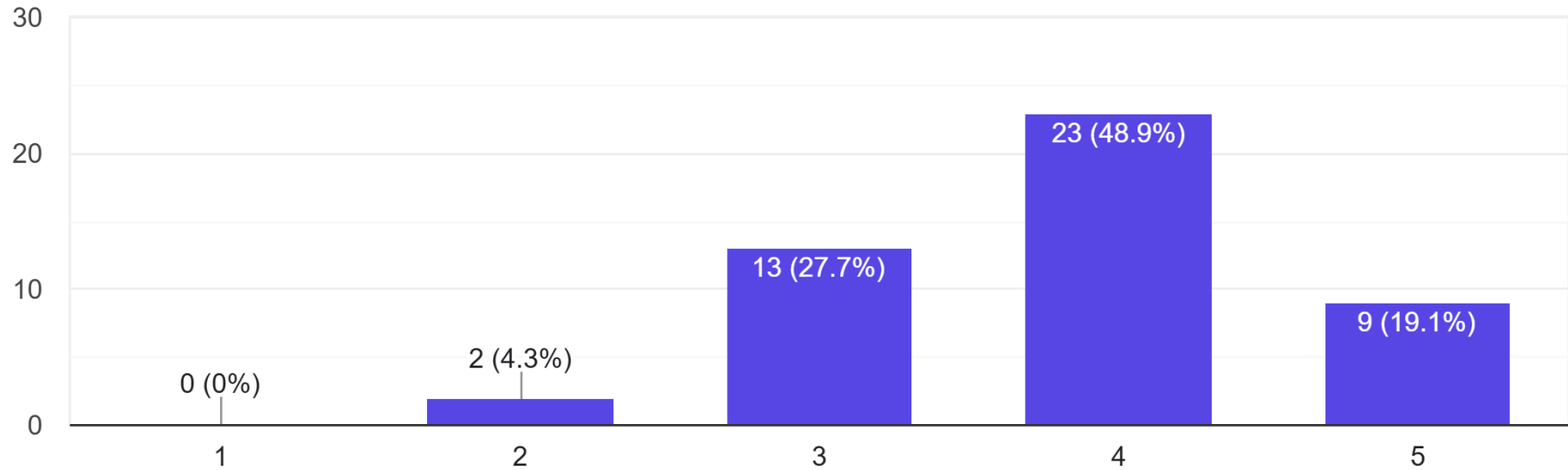
Group learning

I learned new things about ml

Help to understand the concept

FEEDBACK RECEIVED FROM PARTICIPANTS

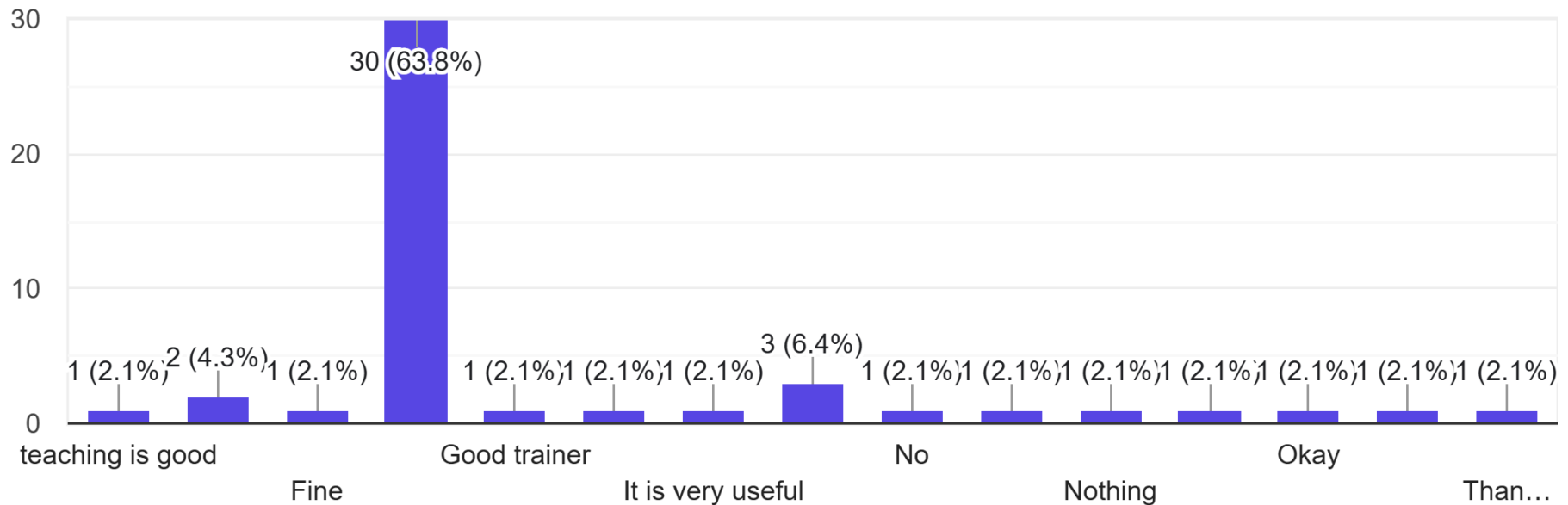
Rate the overall experience: மொத்த பயிற்சி அனுபவத்திற்கு மதிப்பீடு அளிக்கவும்:
47 responses



FEEDBACK RECEIVED FROM PARTICIPANTS

One word to describe about the trainer

47 responses



THANK YOU

Heartfelt thanks to

