

AI in Action: From ML Fundamentals to Deep Learning - Department of AI&DS

A two-day workshop titled “AI in Action: From ML Fundamentals to Deep Learning” covering Introduction of Artificial Intelligence & Machine Learning, Various ML Libraries, and Projects on Cataract Eye Data and Diabetes Data was conducted on 13th and 14th March 2026 at AJ Institute of Engineering & Technology.

Objectives of the programme:

The main objective of the session was to provide students with foundational knowledge of Artificial Intelligence (AI) and Machine Learning (ML).

The programme aimed to:

- Introduce the basic concepts and importance of AI and ML in modern technology.
- Familiarize students with commonly used Machine Learning libraries.
- Demonstrate real-world applications of ML in healthcare.
- Encourage students to work on data-driven projects.

Programme Highlights:

- The programme was organized by the Department of Artificial Intelligence and Data Science under AURORA (An Association of AI & DS).
- The session was conducted from 9:00 AM to 4:30 PM over two days.
- The resource persons for the session were Mr. Sonet D Thomas, Senior Research Fellow, CIODS, and Mr. Naveen Joy, Data Scientist, CIODS.
- The event was coordinated by Mr. Sreeba Mathew C.
- The programme was conducted under the guidance of Dr. Padmanayana, Head of the Department.
- The session began with an introduction to Artificial Intelligence and Machine Learning, explaining how machines can learn from data and make intelligent decisions.

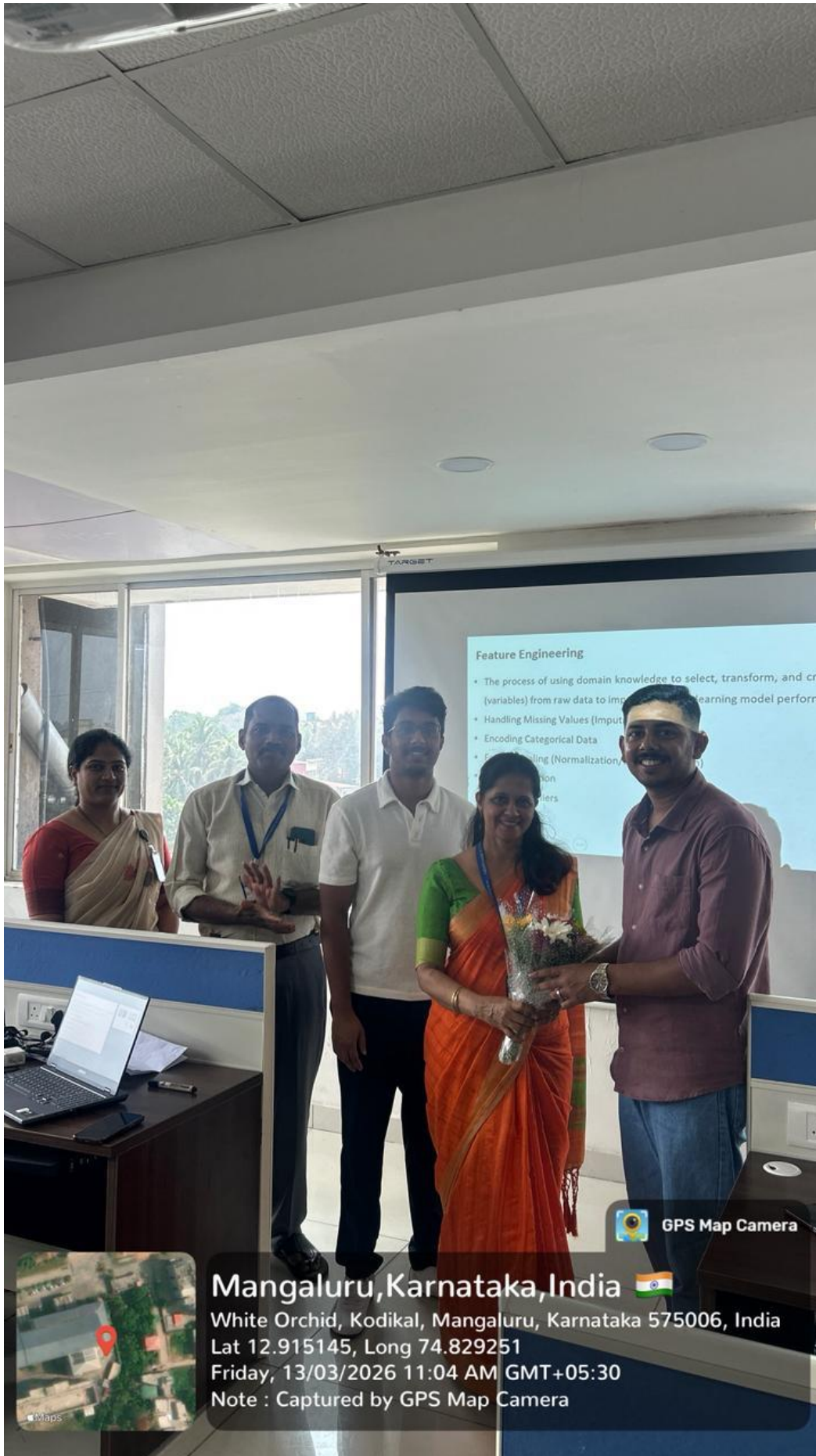
Two important healthcare-based projects were discussed:

1. Cataract Eye Detection Project:

- The project focuses on identifying cataract conditions using eye image data.
- Image processing and machine learning techniques were used to classify normal and cataract-affected eyes.
- The model helps in early diagnosis and supports medical professionals.


2. Diabetes Prediction Project:

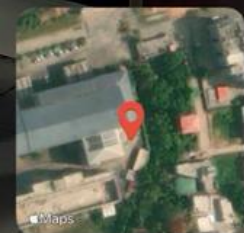
- This project uses patient health data to predict the likelihood of diabetes.
- The system assists in early detection and preventive healthcare.




Feature Engineering

- The process of using domain knowledge to select, transform, and create (variables) from raw data to improve machine learning model performance
- Handling Missing Values (Imputation)
- Encoding Categorical Data
- Feature Scaling (Normalization, Standardization)
- Feature Selection

 GPS Map Camera



Mangaluru, Karnataka, India 

White Orchid, Kodikal, Mangaluru, Karnataka 575006, India

Lat 12.915145, Long 74.829251

Friday, 13/03/2026 11:04 AM GMT+05:30

Note : Captured by GPS Map Camera





GPS Map Camera

Mangaluru, Karnataka, India
White Orchid, Kodikal, Mangaluru, Karnataka 575006, India
Lat 12.915164, Long 74.829234
Friday, 13/03/2026 09:42 AM GMT+05:30
Note : Captured by GPS Map Camera



DEPARTMENT OF AIR FORCE INTELLIGENCE AND DATA SCIENCE
AI/ML ACTIVITY FROM FUNDAMENTALS TO DEEP LEARNING

Mangaluru, Karnataka, India



Bangara Kuloor, Kodikal, Mangaluru, Karnataka 575006, India

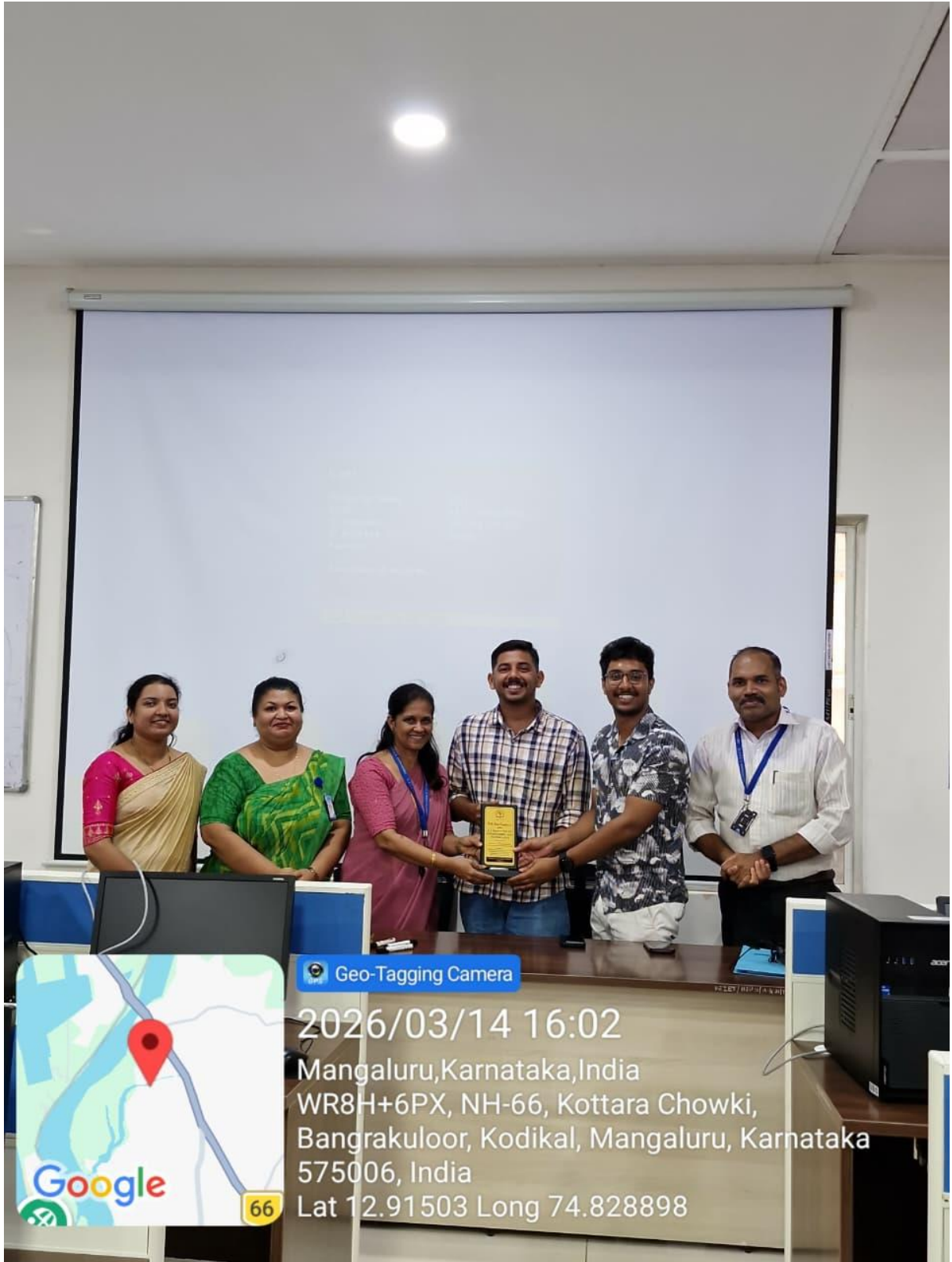
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GPS Map Camera



Geo-Tagging Camera

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Mangaluru, Karnataka, India
WR8H+6PX, NH-66, Kottara Chowki,
Bangrakuloor, Kodikal, Mangaluru, Karnataka
575006, India
Lat 12.91503 Long 74.828898





A J INSTITUTE OF ENGINEERING & TECHNOLOGY

(A UNIT OF LAXMI MEMORIAL EDUCATION TRUST)

NH-66, Kottara Chowki, Mangaluru, Karnataka 575006

Approved by AICTE, New Delhi, Affiliated to Visvesvaraya Technological University)

Accredited by NAAC & NBA (BE : CV, CSE, ECE, ISE & ME)



DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



AURORA

AN ASSOCIATION OF AI&DS

AURORA Organizes

AI IN ACTION: FROM ML FUNDAMENTALS TO DEEP LEARNING

9:00AM-4:30 PM

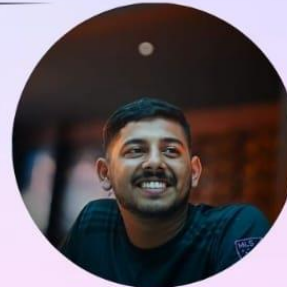
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13 & 14 March, 2026

Resource Persons



Sonet D Thomas
Senior Research Fellow
CIODS



Naveen Joy
Data Scientist
CIODS

Dr. Shantharama Rai C
Principal

Dr. T. Jayaprakash Rao
Campus Director

Dr. P Mahabaleswarappa
Dean Academics

Dr. Antony P J
Vice Principal

Dr. Padmanayana
HOD

Mr. Sreeba Mathew C
Event Coordinator

Our Patrons

Dr. A J Shetty
President, LMET
Mrs. Ashritha P Shetty
Director, LMET

Mrs. Sharadha J Shetty
Director, LMET
Dr. Prashanth Marla K
Director, LMET

Mr. Prashanth Shetty
Vice President, LMET
Dr. Amitha P Marla
Director, LMET