



**DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING
MEA ENGINEERING COLLEGE, PERINTHALMANNA**

REPORT ON ONE DAY WORKSHOP CONDUCTED UNDER CSI ON 25/09/23

Venue: Programming Language Lab

Time: 9.30 AM - 4.20 PM

ONE DAY WORKSHOP - NAVIGATING ML LANDSCAPE:"TRENDS AND TECHNIQUES"

Date: September 25, 2023

Time: 9:30 AM to 4:30 PM

Venue: Programming Language Lab

Organized by: Computer Society of India (CSI) - Department of Computer Science and Engineering

Introduction:

The workshop titled "Navigating ML: Trends and Techniques" held on September 25, 2023, was a remarkable event hosted by the Computer Society of India (CSI) for the final year students in the Department of Computer Science and Engineering. The workshop featured Mr. Pradeep, a renowned Data Analyst from LTI Mindtree, Bangalore, as the key resource person.

Agenda and Topics Covered:

1. 9:30 AM - 10:00 AM: Registration and Welcome Speech

The workshop commenced with a warm welcome speech by Prof. Muhammed Suhair, Assistant Professor Dept of CSE, setting the tone for the day's proceedings. Attendees were introduced to the objectives of the workshop.

2. 10:00 AM - 12:00 PM: Theoretical Session on Introduction to Machine Learning and Machine Learning Project Workflow

Mr. Pradeep provided a comprehensive overview of Machine Learning, emphasizing its fundamental concepts and applications. Participants gained insights into the workflow of a typical Machine Learning project.

3. 12:00 PM - 12.30 PM: Session on the Latest Trends in Data Science and Data Science Career Options

· In this session, the latest trends and career opportunities in the field of Artificial intelligence and Data Science were discussed, providing students with valuable insights into the industry and career opportunities.

4..12:30 PM - 4.00 PM: Hands-on Workshop on Machine Learning Project Workflow

· The afternoon session was dedicated to practical learning. Mr. Pradeep guided participants through the entire Machine Learning project workflow, covering key aspects such as problem mapping, exploratory data analysis, algorithm selection, language, and framework selection, coding, model selection, and deployment using streamlit.

8. 4.00PM - 4:20 PM: Q&A Session

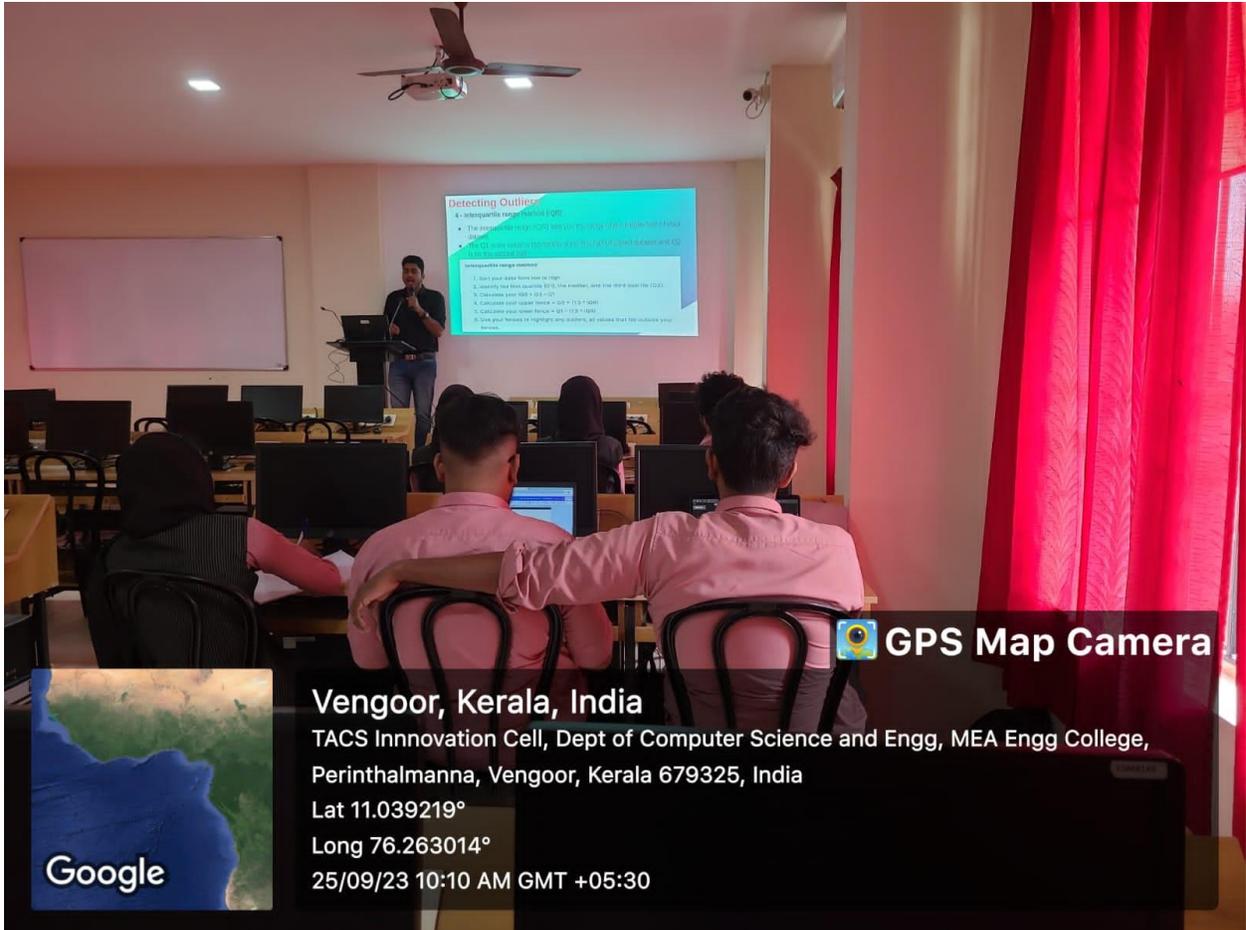
· The workshop concluded with a question-and-answer session, during which students had the opportunity to seek clarification and engage in meaningful discussions with Mr. Pradeep.

9. 4:20 PM - 4:30 PM: Vote of Thanks

· The workshop ended on a high note with a heartfelt vote of thanks delivered by Mr. Fasalurahman, a student of S7CSE1. He expressed gratitude to Mr. Pradeep, the organizing committee, and all the participants for making the event a great success.

Conclusion: The "Navigating ML: Trends and Techniques" workshop provided final year students with a unique opportunity to learn from an industry expert, gain practical insights into Machine Learning, and explore the latest trends in Data Science. It was an enriching experience that will undoubtedly benefit the participants as they embark on their careers in the field of technology and data science.

The Computer Society of India (CSI) remains committed to providing valuable learning experiences and opportunities to its members, and this workshop was a testament to that commitment.



Detecting Outliers

- Interquartile range (IQR)
- The interquartile range (IQR) is the difference between the 75th and 25th percentiles.
- IQR is a measure of spread, not of center, and is not affected by outliers.

Interquartile Range Method

1. Sort your data from low to high.
2. Identify the first quartile (Q1), the median, and the third quartile (Q3).
3. Calculate IQR = Q3 - Q1.
4. Calculate the lower fence = Q1 - 1.5 * IQR.
5. Calculate the upper fence = Q3 + 1.5 * IQR.
6. Use your fences to highlight any outliers, or values that fall outside your fences.

 **GPS Map Camera**

Vengoor, Kerala, India

TACS Innovation Cell, Dept of Computer Science and Engg, MEA Engg College,
Perinthalmanna, Vengoor, Kerala 679325, India

Lat 11.039219°

Long 76.263014°

25/09/23 10:10 AM GMT +05:30



Google



Dependency Challenge

- Dependency challenge in IoT
- The dependency challenge in IoT is the challenge of managing the dependencies between the various components of the system.
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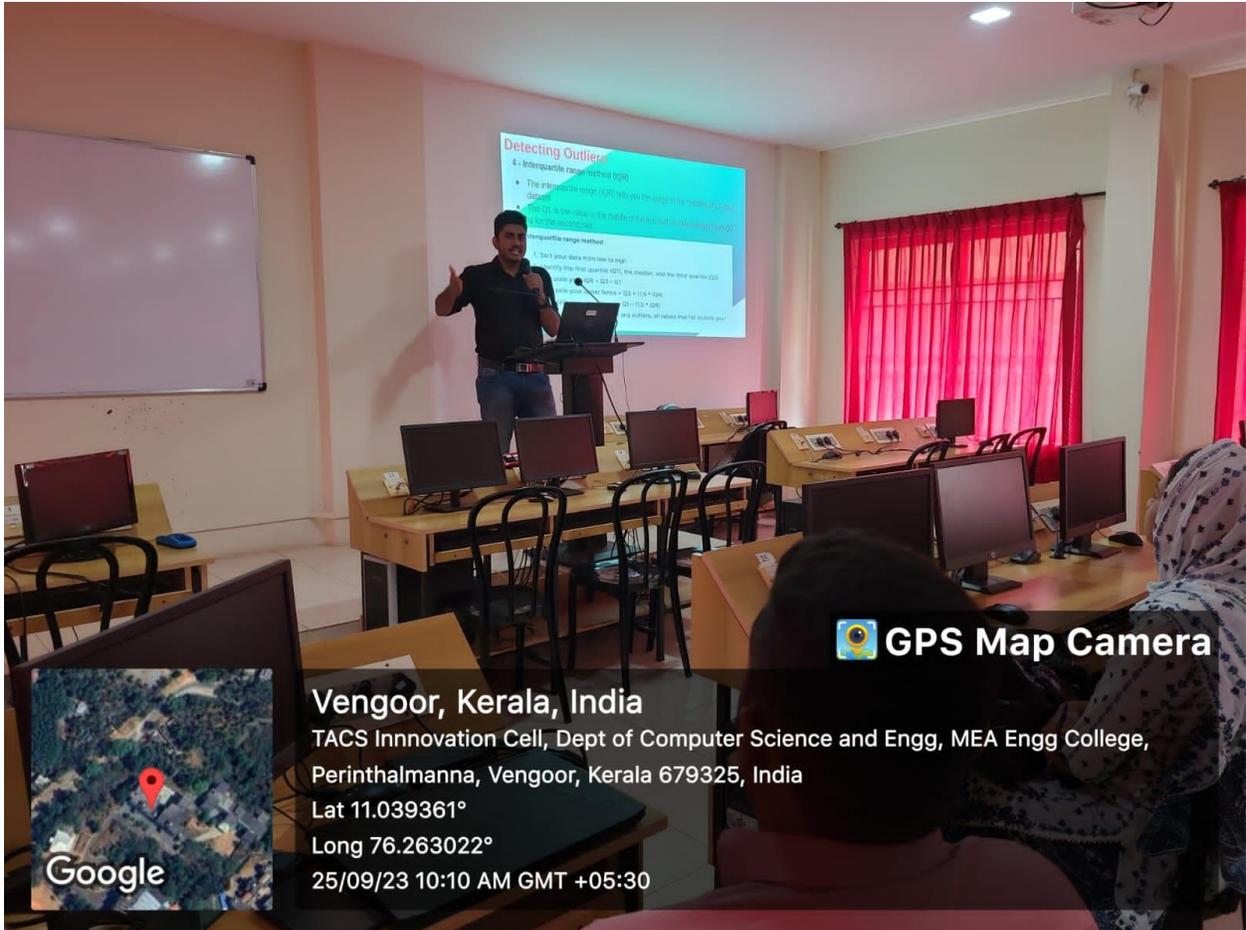


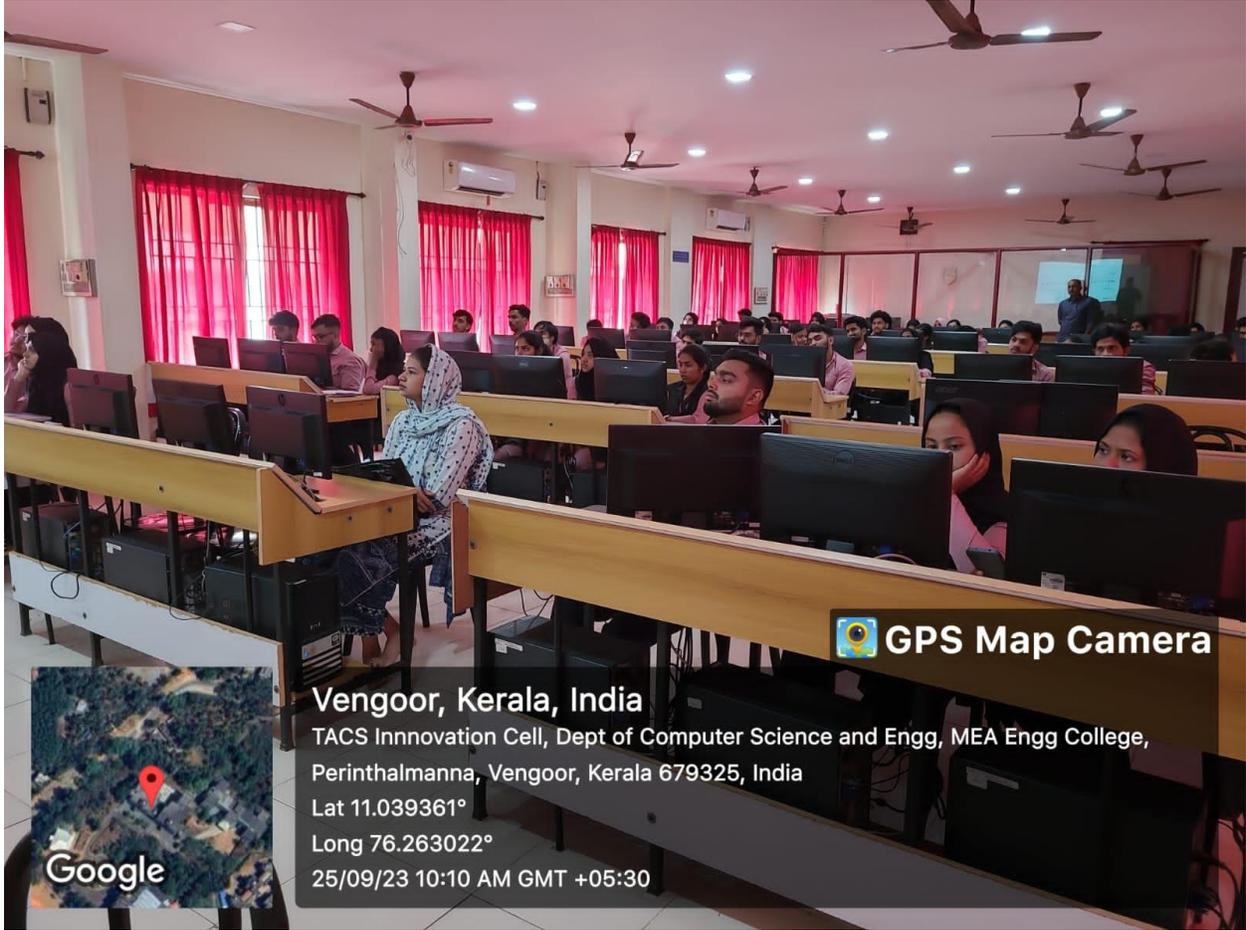


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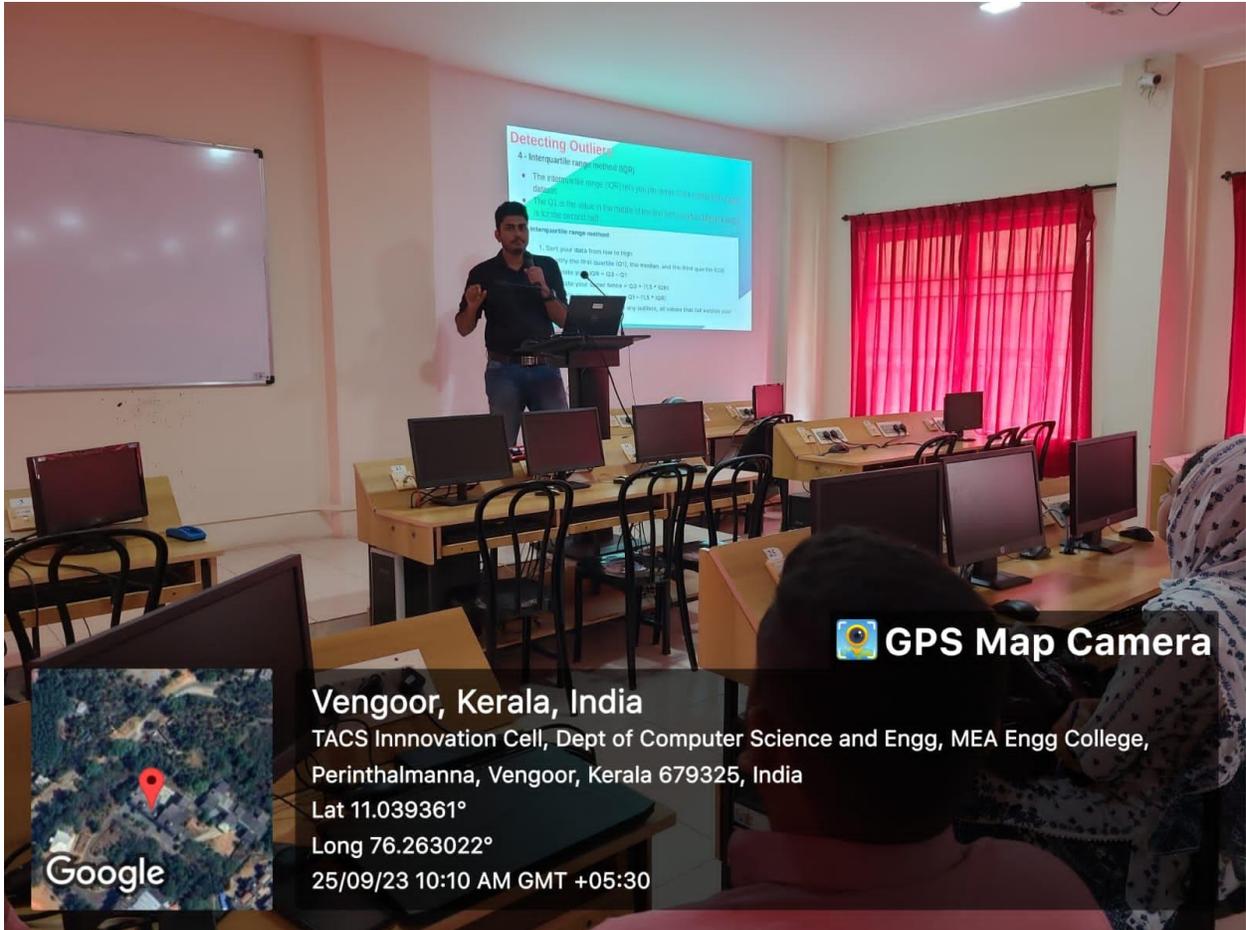
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Detecting Outliers

- 4 - Interquartile range method (IQR)
- The interquartile range (IQR) is the difference between the 75th percentile (Q3) and the 25th percentile (Q1).
- The IQR is the range of the middle 50% of the data.
- As the IQR increases, the spread of the data increases.

Interquartile Range method

- Sort your data from low to high.
- Find the 25th percentile (Q1), the median, and the 75th percentile (Q3).
- Calculate the IQR: $IQR = Q3 - Q1$
- Calculate the lower whisker: $Lower = Q1 - 1.5 * IQR$
- Calculate the upper whisker: $Upper = Q3 + 1.5 * IQR$
- Any values that fall outside your whiskers are outliers.

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