Group 16: Week 1 Report

Project: Lane detection by clustering tracks- pNEUMA

Members:

- Adyan Shamin
- Ajay Adithya S
- Khanjan Purohit

Dataset Overview:

• File Name: 20181024_d1_0900_0930.csv

• Source: https://open-traffic.epfl.ch

• Format: CSV (Comma-Separated Values)

• Contents: Vehicle-related data from a specific time window (09:00 - 09:30)

Initial Steps:

1. Data Loading:

- The dataset has been loaded using pandas.
- Columns are displayed with pd.set_option('display.max_columns', 200) to view all data.

2. Preliminary Exploration:

- o Initial data points are accessed using df.iloc[1][0].
- File reading is performed manually using Python's open() function to inspect line structure.

3. Data Structure Investigation:

- o The delimiter used in the CSV file is ;.
- o The dataset's structure is being analyzed by printing lines from the file.

Next Steps:

- · Perform data cleaning and preprocessing.
- Identify key features relevant to policy-making.
- Apply exploratory data analysis (EDA) using statistical and visualization techniques.
- Consider suitable machine learning models for predictive insights.