

Data Collection and Preprocessing Phase

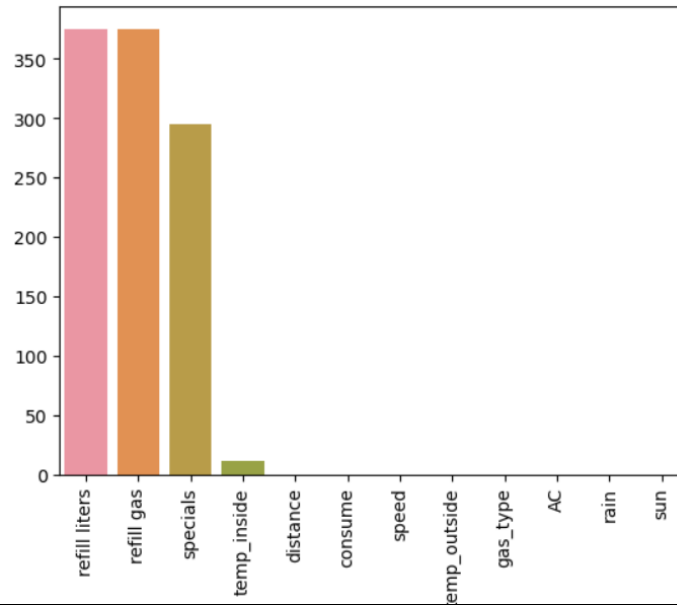
Date	15 th July 2024
Team ID	739740
Project Title	Predictive Modeling For Fleet Fuel Management Using ML
Maximum Marks	6 Marks

Data Exploration and Preprocessing Template

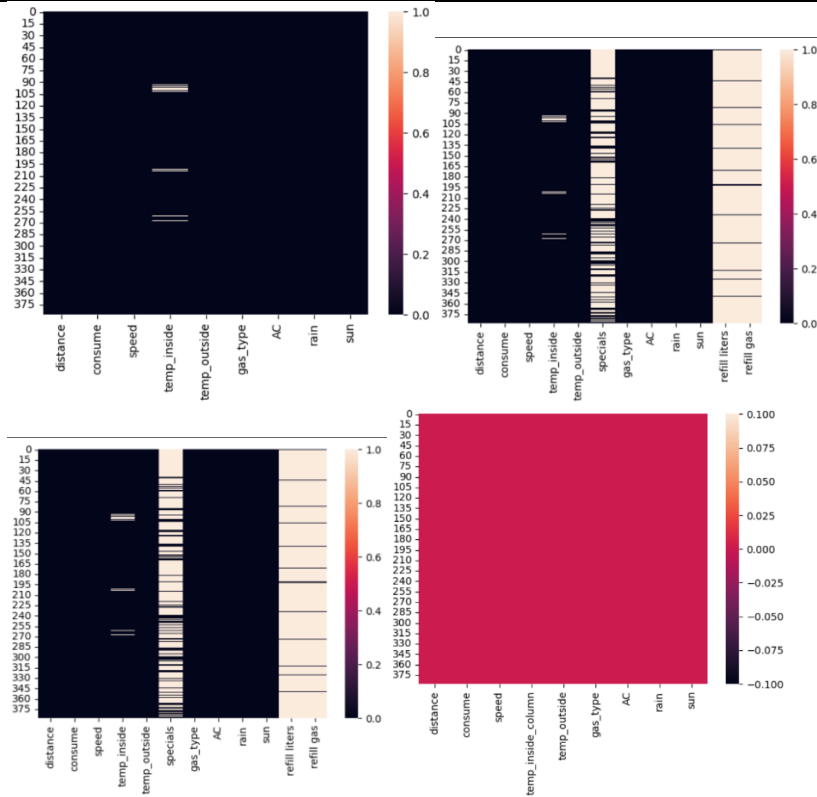
Perform exploratory data analysis to understand fuel consumption patterns and clean data for ML model input, handling missing values and outliers appropriately.

section	Description
Data Overview	analyzing multiple facets such as historical fuel usage, vehicle telematics, weather conditions, traffic patterns, and driver behavior to optimize fleet fuel efficiency.
Univariate Analysis	<pre> <bound method NDFrame.head of 0 28 5 26 21,5 12 NaN E10 0 1 12 4,2 30 21,5 13 NaN E10 0 2 11,2 5,5 38 21,5 15 NaN E10 0 3 12,9 3,9 36 21,5 14 NaN E10 0 4 18,5 4,5 46 21,5 15 NaN E10 0 383 16 3,7 39 24,5 18 NaN SP98 0 384 16,1 4,3 38 25 31 AC SP98 1 385 16 3,8 45 25 19 NaN SP98 0 386 15,4 4,6 42 25 31 AC SP98 1 387 14,7 5 25 25 30 AC SP98 1 rain sun refill liters refill gas 0 0 0 45 E10 1 0 0 NaN NaN 2 0 0 NaN NaN 3 0 0 NaN NaN 4 0 0 NaN NaN 383 0 0 NaN NaN 384 0 0 NaN NaN 385 0 0 NaN NaN 386 0 0 NaN NaN 387 0 0 NaN NaN </pre>

Bivariate Analysis



Multivariate Analysis



Loading Data	<pre>df=pd.read_csv("dataset-Copy1.csv")</pre>
Handling Missing Data	<pre>df.isnull()</pre>