2.Data Visualization (Auto Mpg.csv)

-Boxplot, Scatter Plot,Histogram

Box Plot,Idenitfy outliers(Write formulas) and replace outliers with lower outlier value or upper outlier value as per the requirement.(Capping method)

3.Data Preprocessing:Handling Missing Values, Outliers(Capping Method), Normalization, Scaling

4.Handle Class Imbalance Problem-Using Sampling techniques or SMOTE

Record

AIM:Implement statistical functions

Description

Python Code:

Output:

Results Table(All Features):

Analysis:

2.Data Visualization

Aim:Box Plot

Theory

Python code

Output:

Analysis on Box Plots for different features

Implement capping technique to find outliers

Expected outcome

IQR=

LowerOutlier

Upper Outlier

Outliers in horse power/acceleration

Replace Outlier if outlier<LO then replace with LO value

OR

replace Outlier value if outlier> UO then replace with UO value