Project Report on Predicting Car Price

Overview

The overview of the project is to predict the “Price” of the car using the various factors related to car like “Age\_08\_04”, ”KM”, ”HP”, “cc”, “Doors”, “Gears”, “Quarterly Tax” and “Weight”.

Importing data and Processing

Importing required packages in Jupyter Notebook. Data loading and preprocessing. Checking for any null values and filling them so no columns are empty.

Exploratory Data Analysis(EDA)

EDA is the important part of Data Analysis that gives the idea to visualize how the dependent variable is related with the independent variable.

Correlation or Heatmap: The heatmap identifies the correlation between the “Price” and the other columns. Price is more correlated with “Age”, “Weight”, “HP”, “KM” and less with “Quarterly Tax”, ”Gears”, “Doors” and “cc”.

Outliers were detected and imputed.

Model Planning, Training and Evaluation

Price is the dependent variable and Age\_08\_04,HP,KM,Weight are dependent variables. Data is split into 80% for training and 20% for testing. Data is trained using the Linear Regression model. Results are predicted for the testing values.

The R2\_Score 83.17% represents a good model to predict the price.

Conclusion

The outcome of the model concludes this model can be used to predict prices of cars and results can be used in the automative industries.