Fuel Efficiency

Description and Preprocessing of Data

The Auto\_MPG.csv is made up of 398 rows and 9 columns. The columns are as follows:

* **mpg** - fuel efficiency measured in miles per gallon (mpg)
* **cylinders** - number of cylinders in the engine
* **displacement** - engine displacement (in cubic inches)
* **horsepower** - engine horsepower
* **weight** - vehicle weight (in pounds)
* **acceleration** - time to accelerate from O to 60 mph (in seconds)
* **model year** -model year
* **origin** - origin of car (1: American, 2: European, 3: Japanese)
* **car name** - car name

Project Description

The aim for this project was to predict the fuel efficiency of a car using a Linear Regression model which was coded using Python. The model created finished up with an R squared value of approximately 80% and a mean difference of 10% between predicted values and actual values when the model was tested using data it hadn’t seen before.