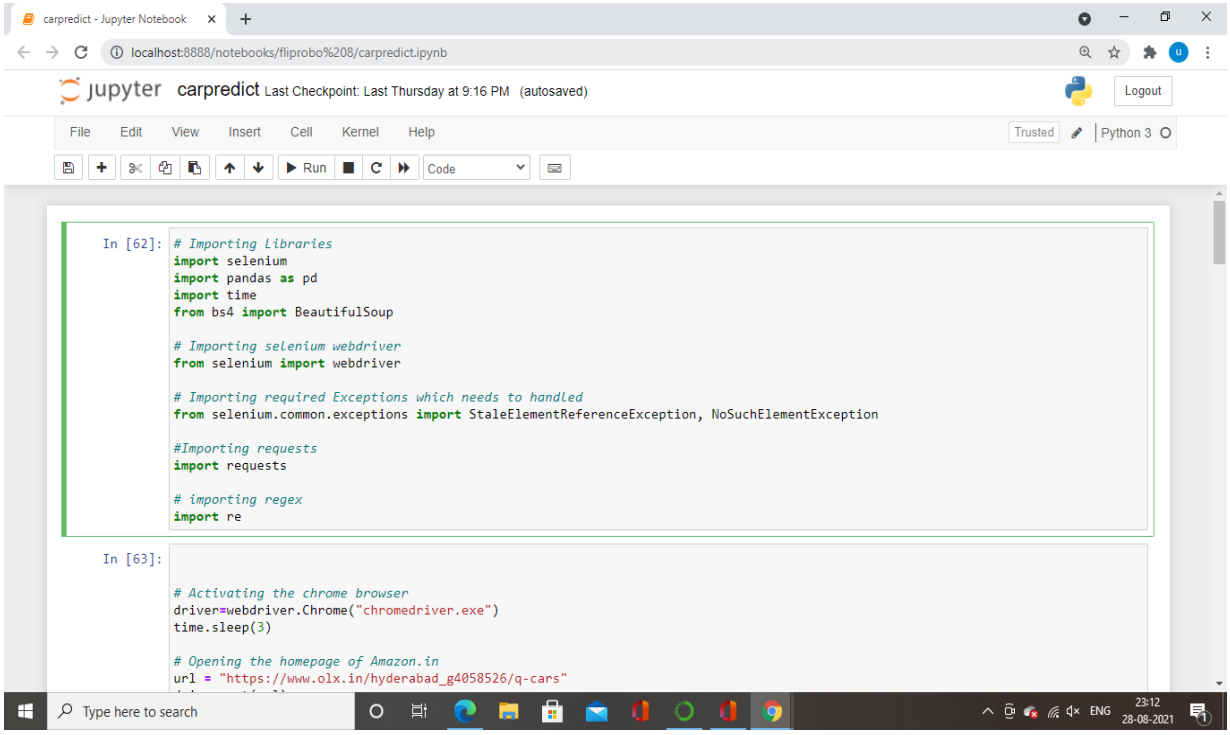
Car Price Prediction Project

covid 19 impact in the market, we have seen lot of changes in the car market. Now some cars are in demand hence making them costly and some are not in demand hence cheaper. One of our clients works with small traders, who sell used cars. With the change in market due to covid 19 impact, our client is facing problems with their previous car price valuation machine learning models.

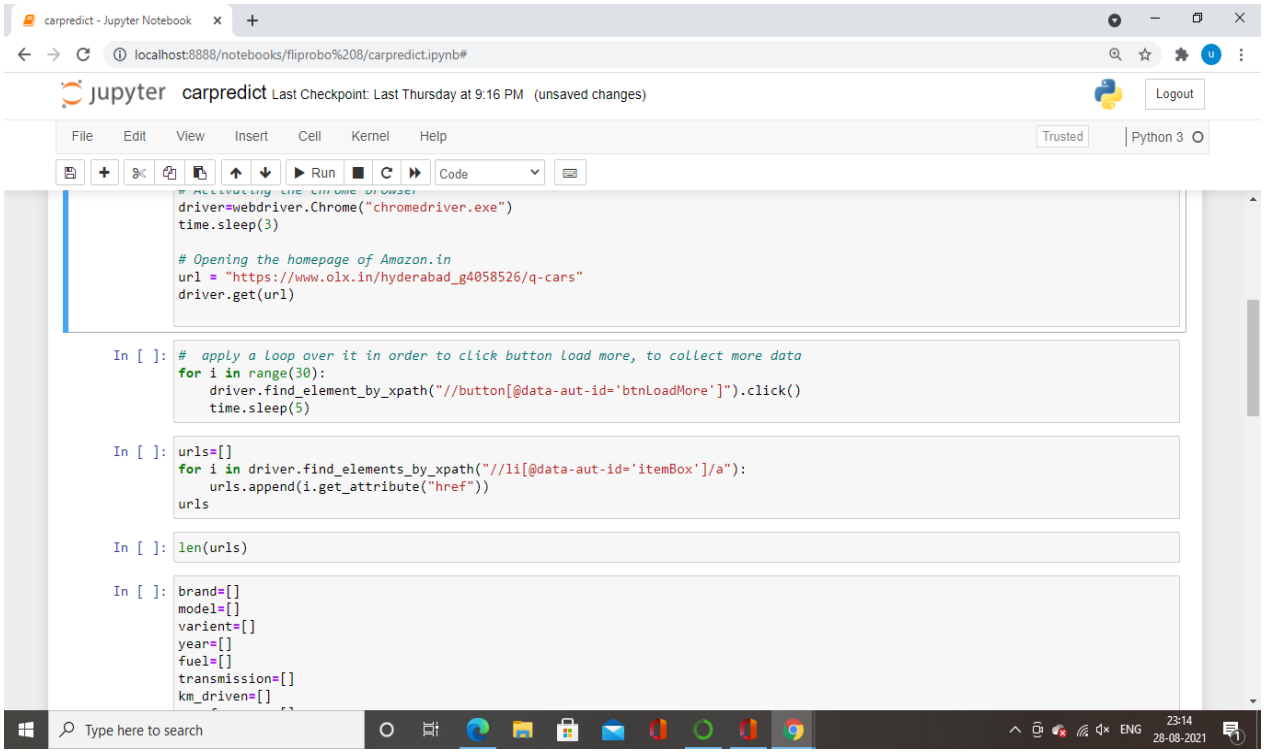
The number of columns for data doesn't have limit, it's up to you and your creativity. Generally, these columns areBrand, model, variant, manufacturing year, driven kilometers, fuel, number of owners, location andat last target variable Price of the car. This data is to give you a hint about important variables in used car model.

Web scraping

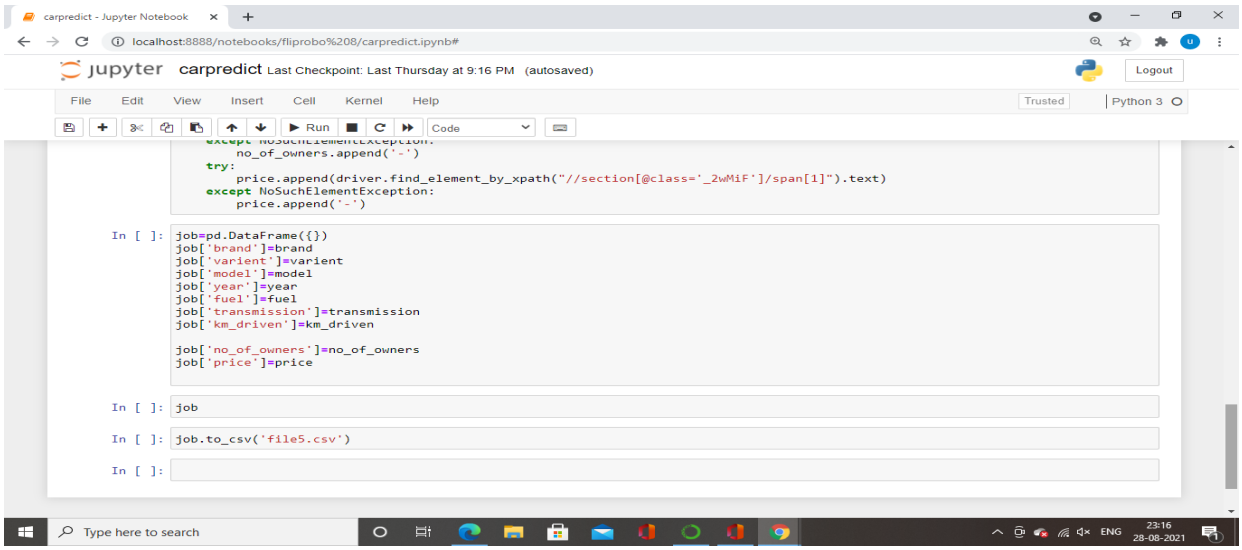


By importing libraries selenium we are going to scrape the data from website and also we are

Using the exception handling



By using url we are going to collect data from websites



By using data frame we are saving data

Machine learning model

We using library numpy,pandas matplotlib,seaborn

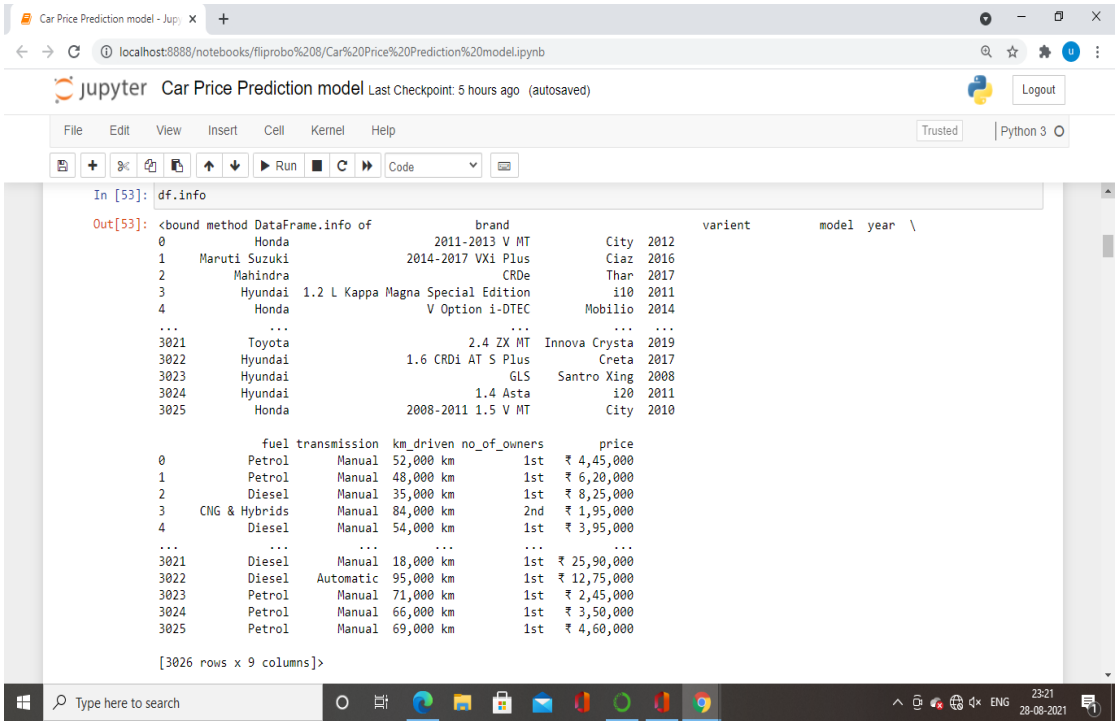
We are reading the data

#unnamed column droped

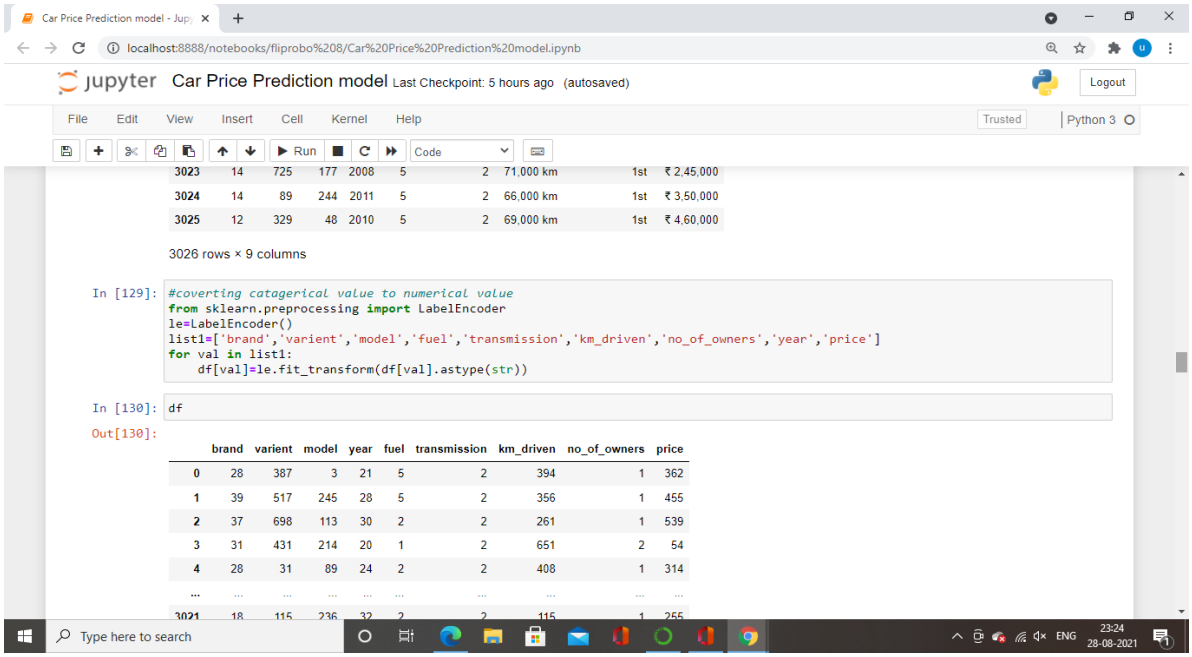
df=df.drop(['Unnamed: 0'], axis = 1)

We are going to drop column

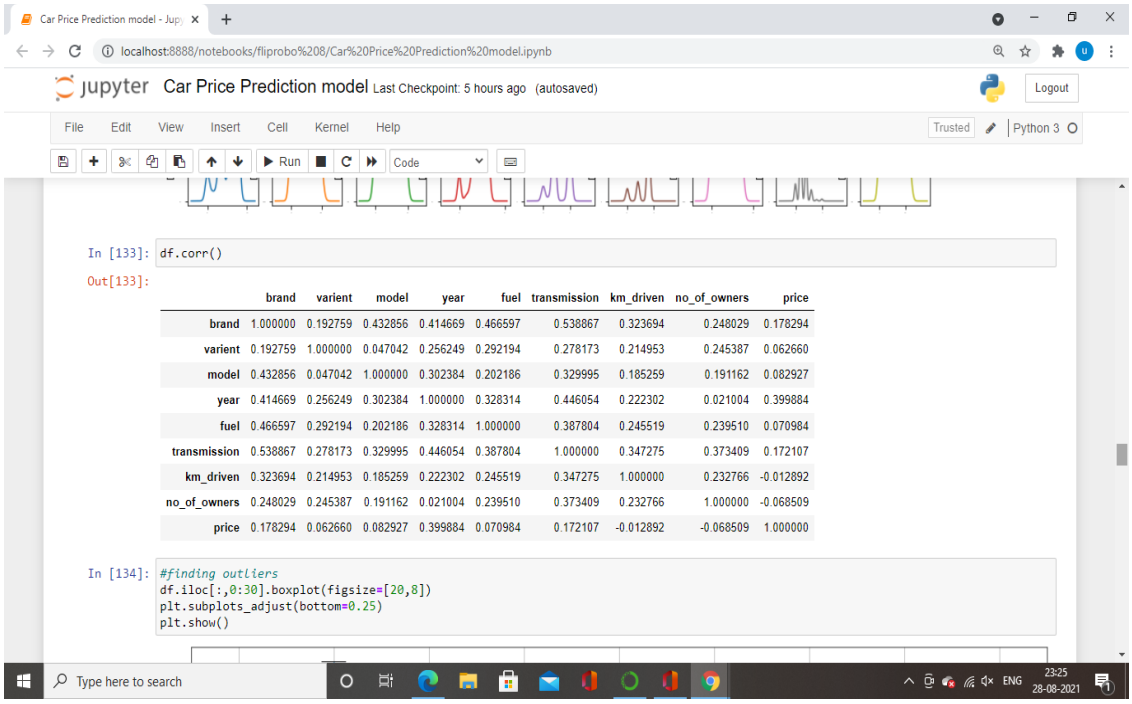
Df.shape we are going to check shape



Its shows the information

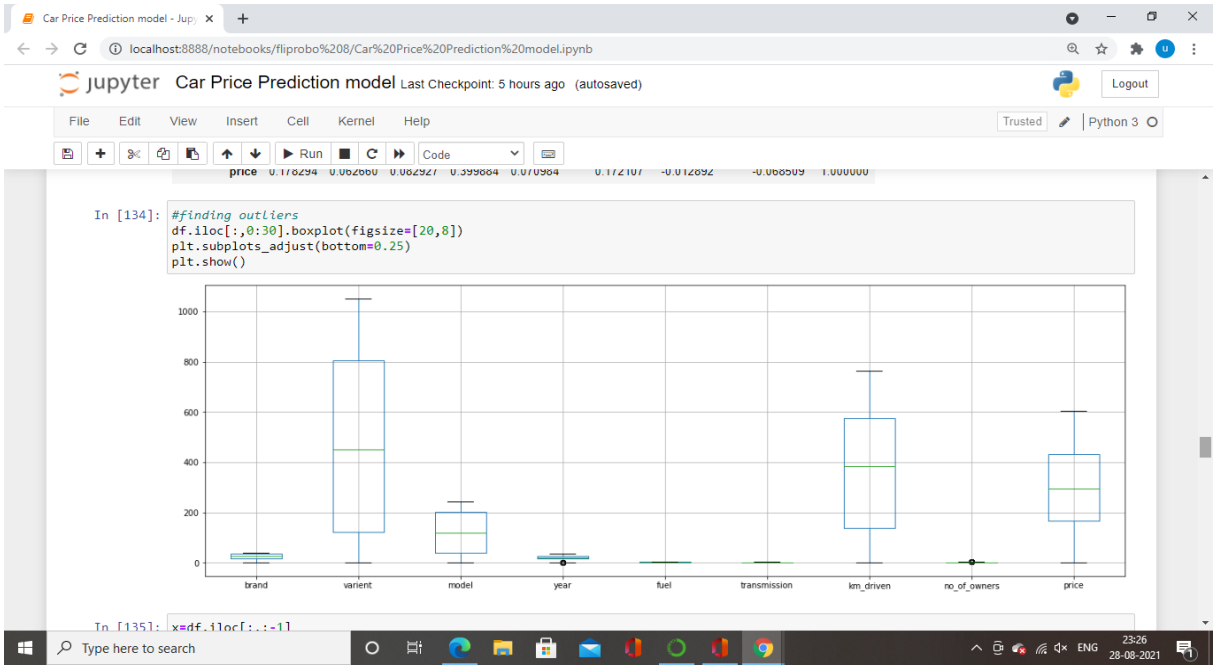


coverting catagerical value to numerical value



Correlelation is find between two variable

Finding the outliers



Decision Tree Score on Training set is 0.8917907165460381

Decision Tree Score on Test Set is 0.34025138214316

[0.18616299 0.15947788 0.24149528 0.14175681 0.23850803]

Accuracy: 19.35 %

Standard Deviation: 4.05 %

Mean Absolute Error: 80.31780040471207

Mean Squared Error: 20113.017274601996

RMSE: 141.82036974497703

The r2_score is 0.34025138214316

Random Forest Score on Training set is 0.6804565411013928

Random Forest Score on Test Set is 0.5127518191564149

[0.40356133 0.43719579 0.47227307 0.48417797 0.44626089]

Accuracy: 44.87 %

Standard Deviation: 2.82 %

Mean Absolute Error: 88.44898180179646

Mean Squared Error: 14854.189630832921

RMSE: 121.8777651207673

The r2_score is 0.5127518191564149

Cross validation value

[-0.2903234 0.83586592 0.83293768 -0.02018227 -0.06782409 -0.09946589]0.19850132642853868 0.457389134880855