**Car Class Predictor**

* This is a Regression problem
* I imported the ‘cars\_price.csv’ dataset and converted to a DataFrame
* The missing values were ‘?’ in the dataset, which I handled by using SimpleImputer and pandas.
* The 25 features in the dataset helped me to predict the prices of the cars
* The most important features in the dataset are:

Make or the company of the car, aspiration, drive-wheels, body-style, engine-type, num-of-cylinders, horsepower, peak-rpm

* Normalized losses feature consists of more ‘?’ values, so dropped the feature.
* Used Label Encoding for num-of-doors and num-of-cylinders features.
* Used One Hot Encoding for all the other categorical features.
* Split the test and train data with 20% data in test dataset.
* Fit different Regression models like Linear Regression, Decision Tree Regressor and Random Forest Regressor.

The ‘final\_model’ is the Random Forest Regressor which got 95% score which is the best when compared to other models.

The result of the model is:

Score –> 95%

Mean Squared Error -> 3945981

Mean Absolute Error -> 1330