**Car Classifier**

* This is a Classification problem

Understanding the Dataset

* Imported the ‘car\_class.csv’ dataset and converted to a Data Frame
* There were no missing values in the dataset

Pre-processing

* Plotted the co-relation of the dataset and dropped the most co-related features
* All the features have good importance in classification
* Handled the outliers by using 25th and 75th quartile range and replaced the values.

Building the Model

* Fit different models like K Nearest Neighbors, Decision Tree, Random Forest, SVC and Logistic Regression.
* Analysed the performance of each model by using metrics such as Accuracy and Classification matrix.
* Logistic Regression model performed the best

**Final Model**

Logistic Regression model is the final model with Accuracy of approximately 83%

The model predicted the 0 and 3 classes perfectly and majority of the 1, 2 classes were predicted correctly.