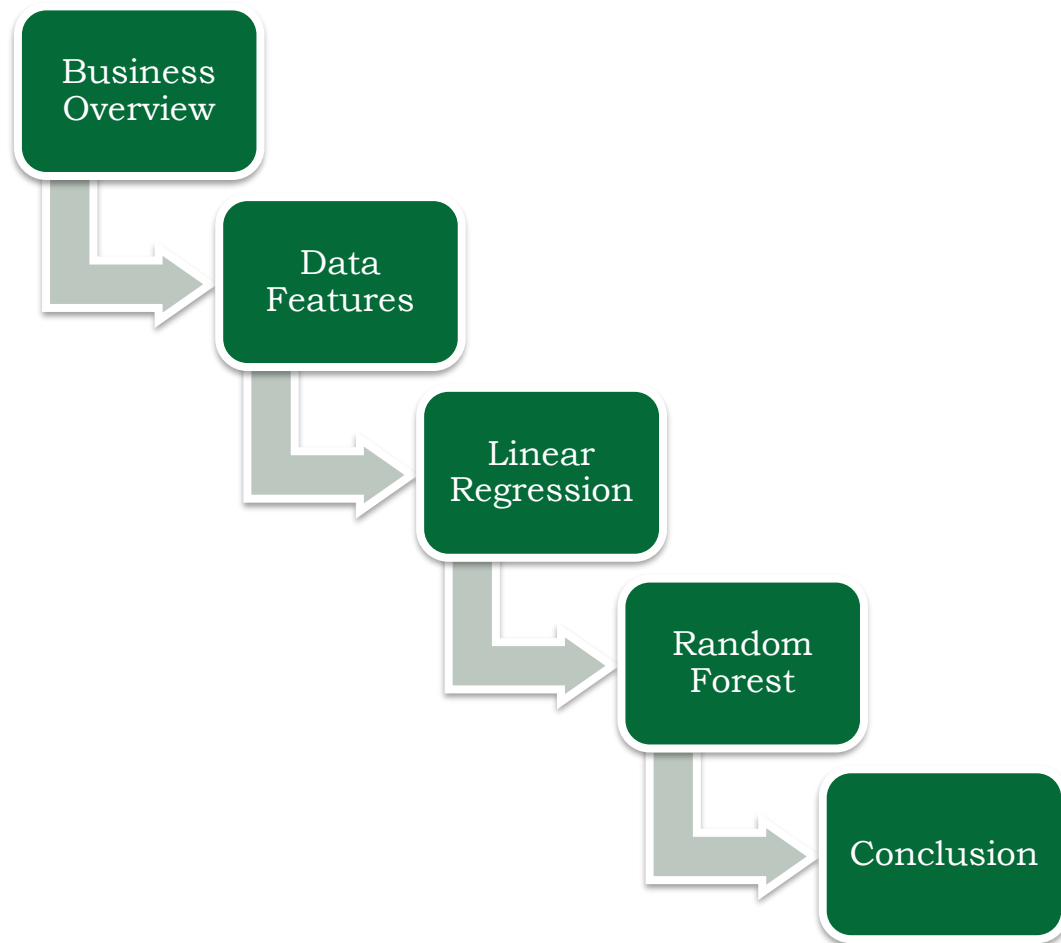




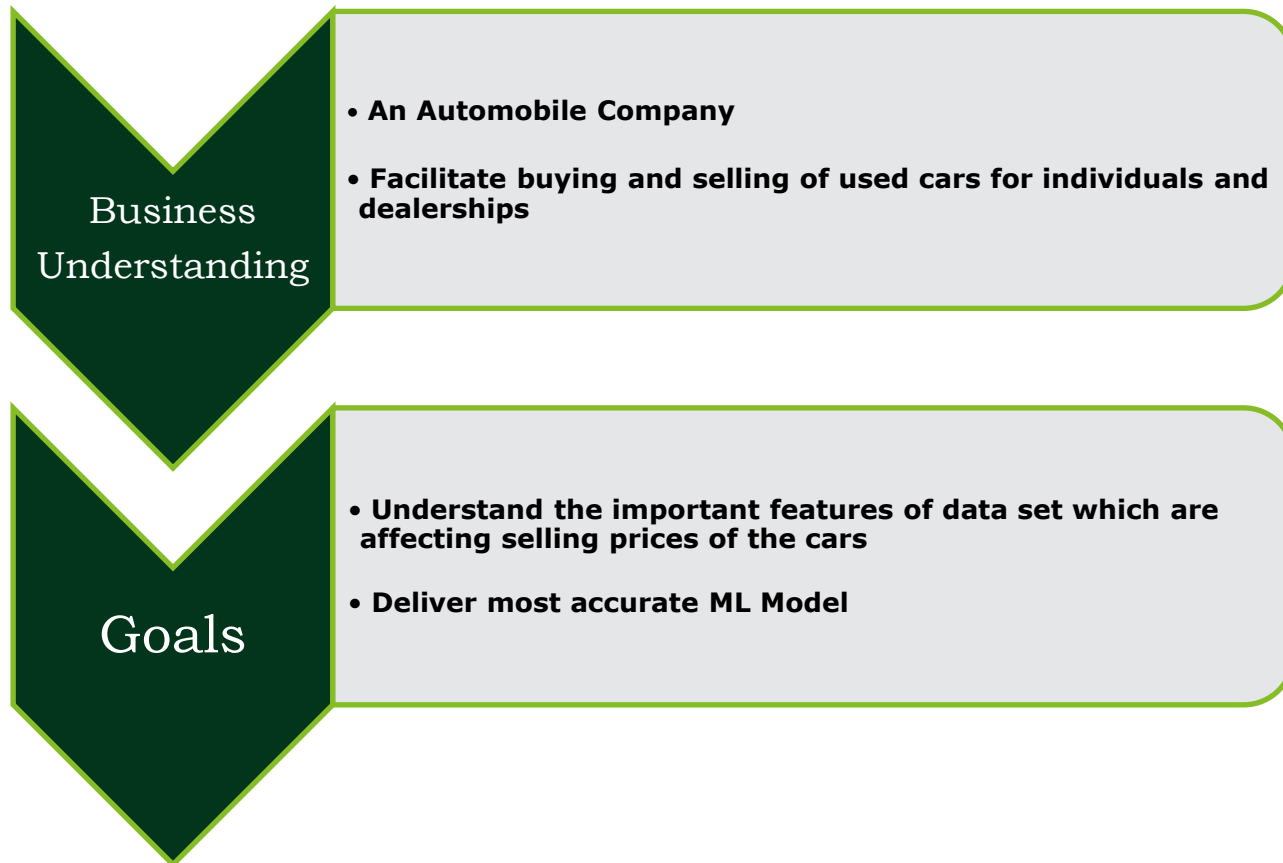
Car Price Prediction Using Machine Learning

-Danish Ali

Agenda

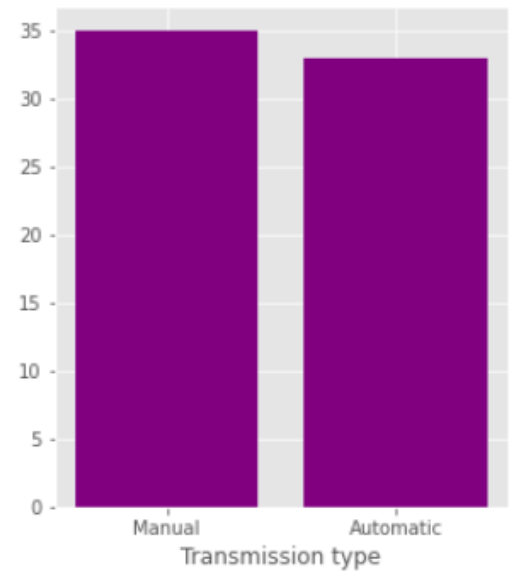
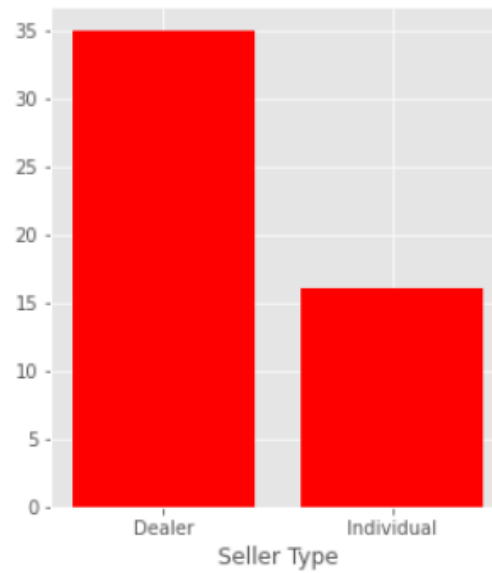
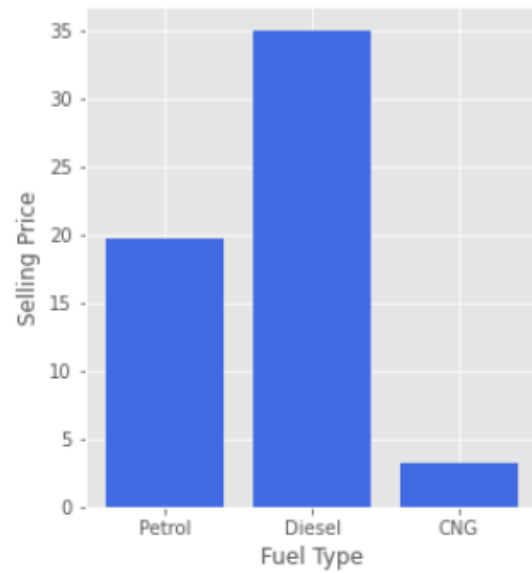


Overview and Goals

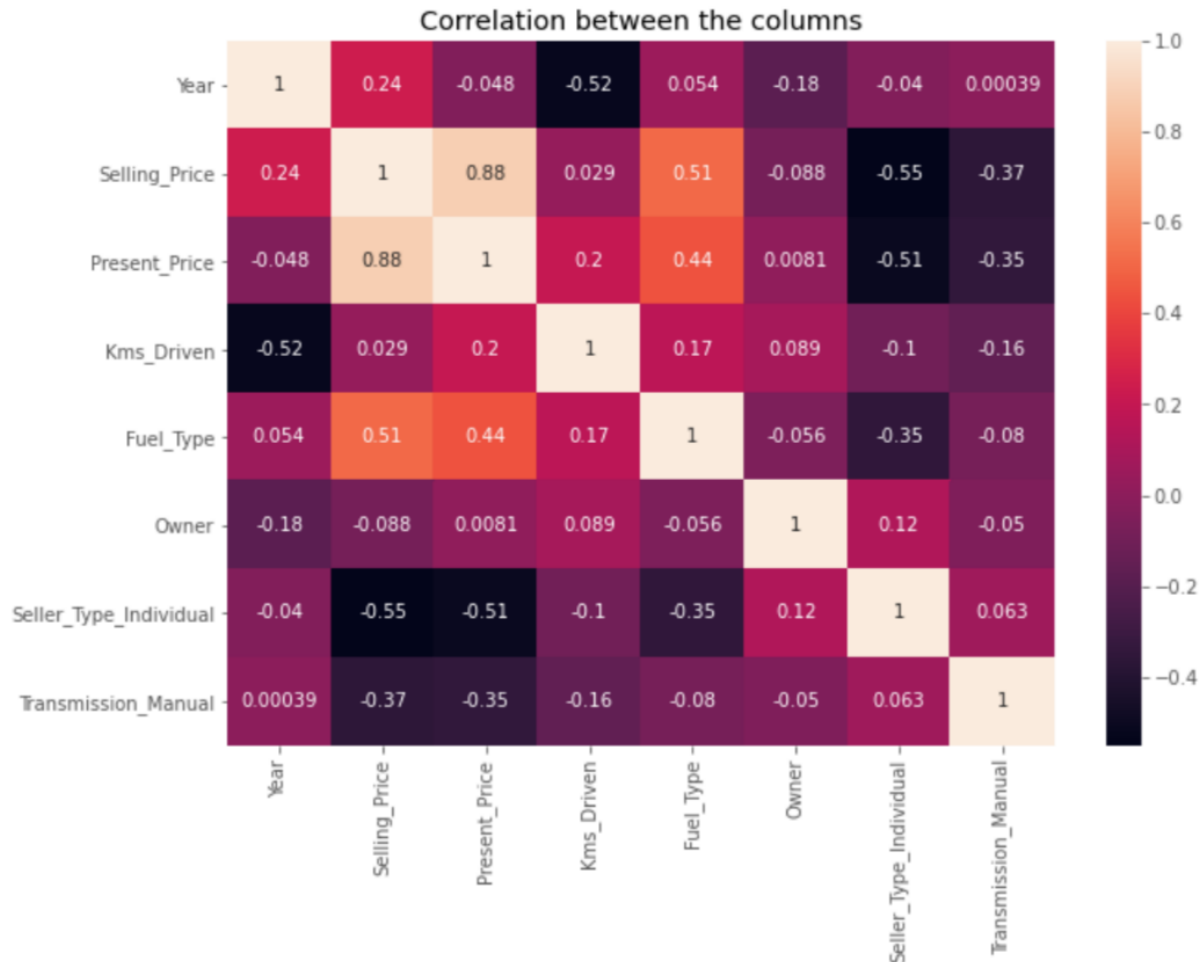


Data Features

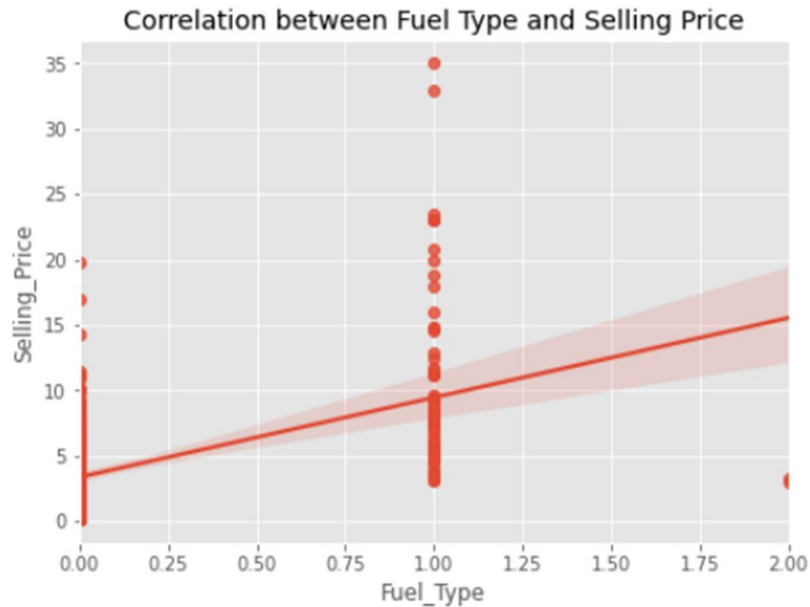
Visualizing categorical data columns



Data Features

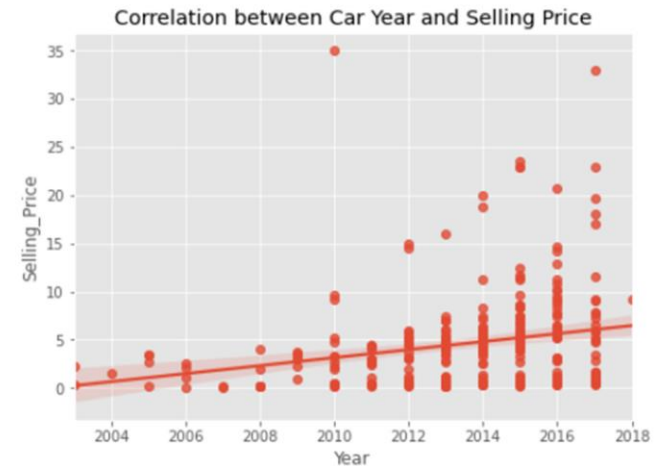
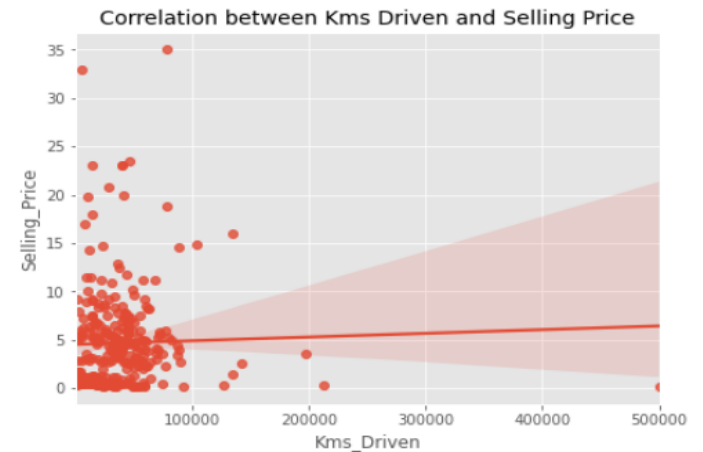


Relation between selling price and some important features affecting the selling price

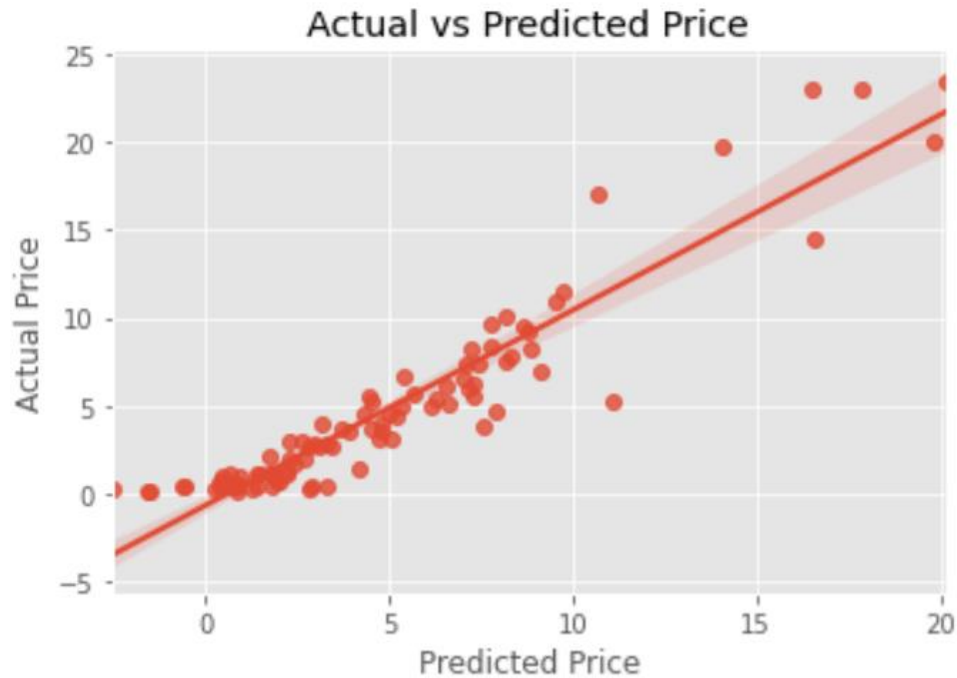


Converted categorical values into numerical for modeling

- 0 = Petrol
- 1 = Diesel
- 2 = CNG

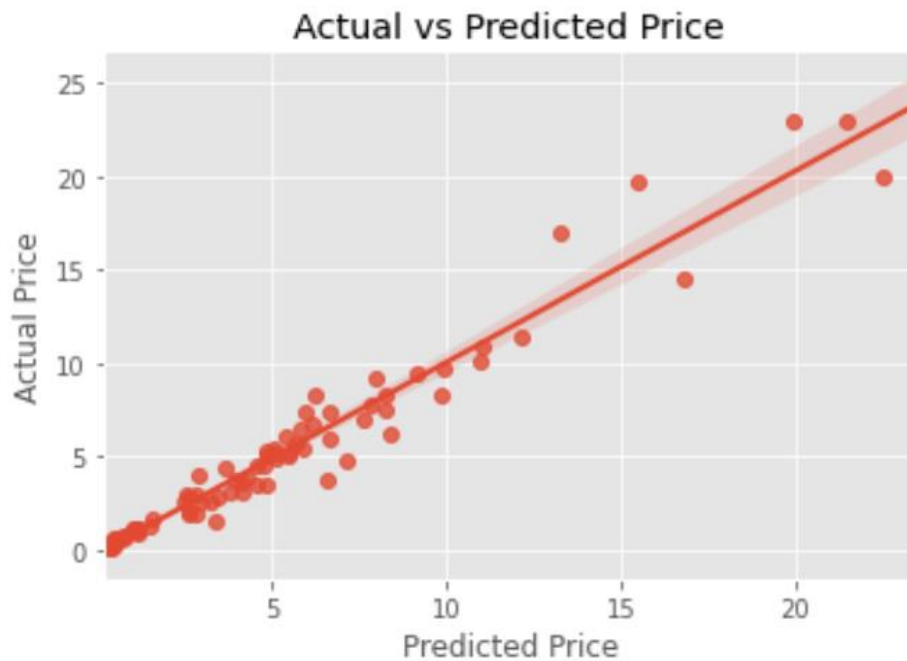


Linear Regression Model



MAE	MSE	R2 Score
1.258140	3.493286	0.829493

Random Forest Model



MAE	MSE	R2 Score
0.633462	1.133944	0.960176

The performance of the Random forest is better, and accuracy is increased by approx. 14%

Key Takeaways

- Present price of a car plays an important role in predicting Selling Price, one increases the other gradually increases
- Random Forest Model is being considered as the best model which is 96% accurate while predicting the car prices
- Selling price of cars with fuel type Diesel is higher than the ones Petrol and CNG
- Car year is affecting negatively as older the car lesser the Selling Price



Thank you for your time

Any questions or comments?



Danish Ali

dabutt@deloitte.com