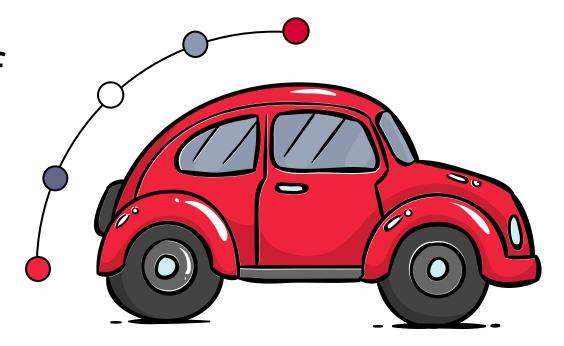
The prediction of a car price

Razan Aljuhani



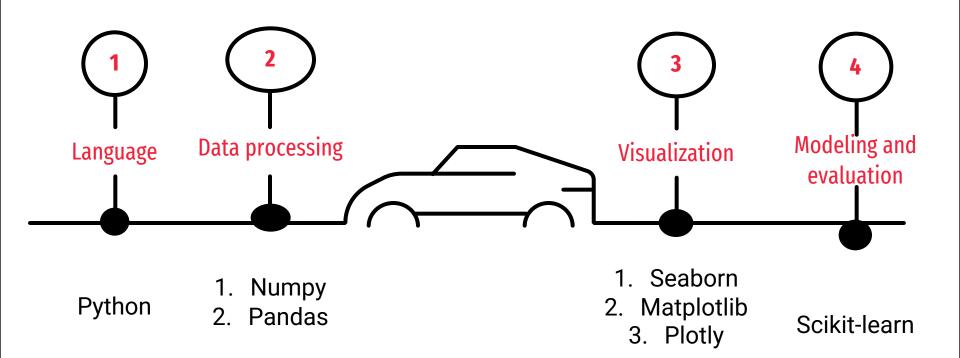
Introduction

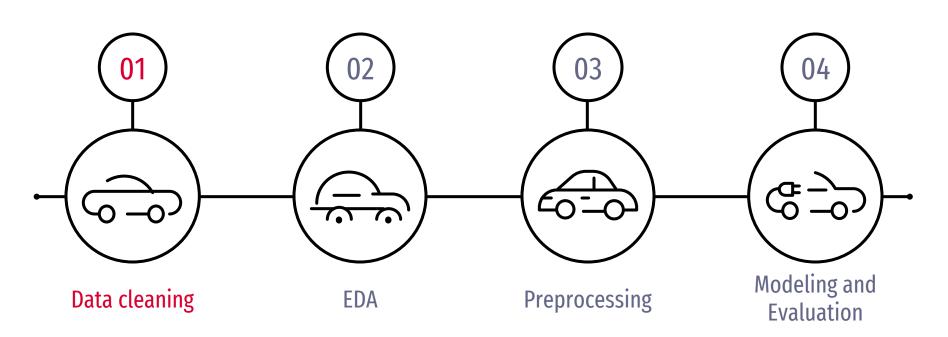
Companies try to produce cars with special features to take attention in the market and compete with other competitors. They need to understand the dynamic changes of pricing in the market through the years, and the factors affecting the pricing

The project will help in clarify the features has a direct impact on the target variable (Selling Price), by build an effective model using Linear regression.



Tools



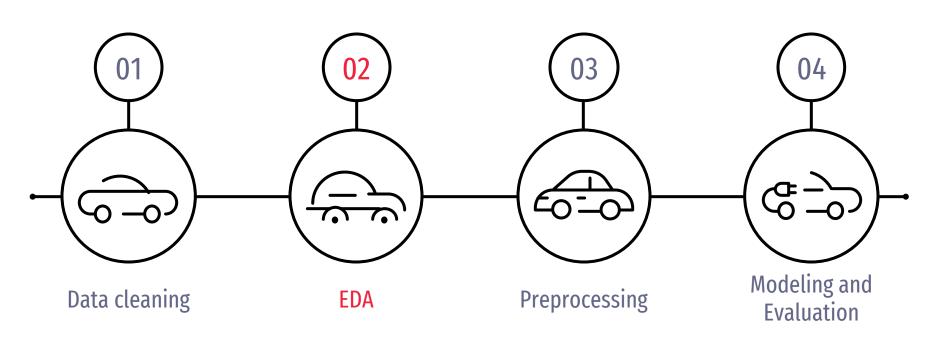


Original Data

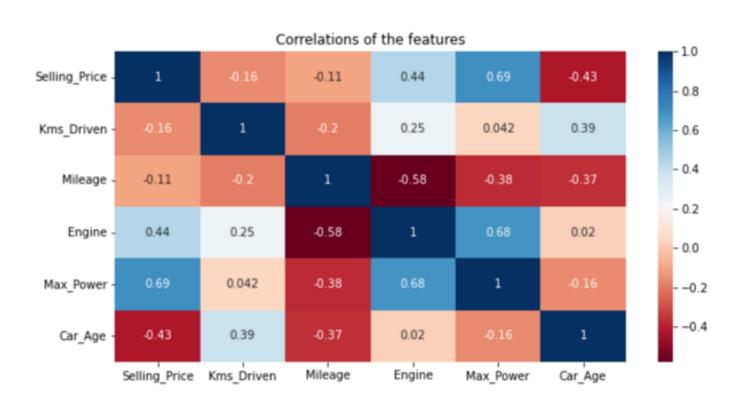
	Name	Year	Selling _price	Km_ driven	Fuel	Seller_ Type	transm ission	Owner	Mileag e	Engine	Max_ Power	Torque	Seats
0	Maruti Swift Dzire VDI	2014	450000	145500	Diesel	Individ ual	Manual	First Owner	23.4 kmpl	1248 CC	74 bhp	190Nm @ 2000rp m	5.0
1	Skoda Rapid 1.5 TDI Ambiti on	2014	370000	120000	Diesel	Individ ual	Manual	Secon d Owner	21.14 kmpl	1498 CC	103.52 bhp	250Nm @ 1500- 2500rp m	5.0

Data after cleaning

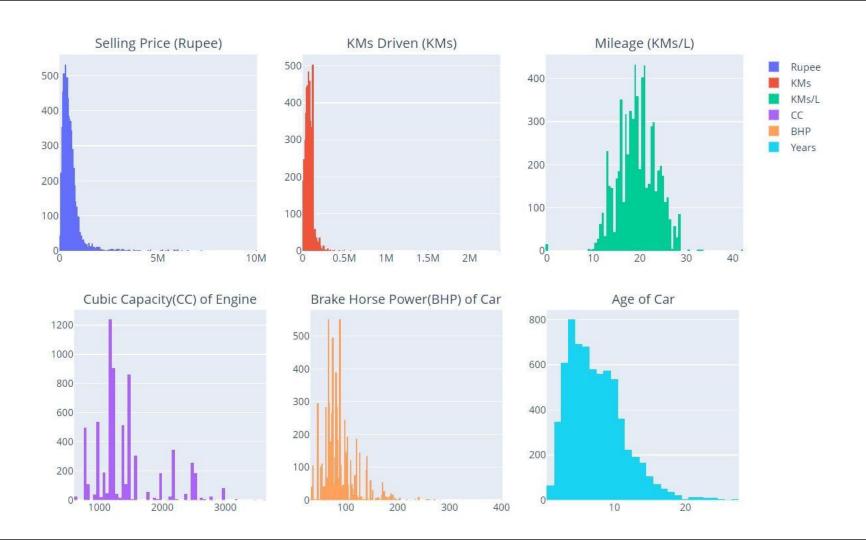
	Selling_ Price	Kms_Dr iven	Fuel_Ty pe	Seller_T ype	Transmi ssion_T ype	Owner_ Number	Mileage	Engine	Max_Po wer	Seats_N umber	Car_Ag e	Car_Bra nd
0	13.0170 03	145500	Diesel	Individu al	Manual	First Owner	23.40	1248.0	4.30406 5	5.0	1.9459 10	Maruti
1	12.8212 58	120000	Diesel	Individu al	Manual	Second Owner	21.14	1498.0	4.63976 5	5.0	1.94591	Skoda

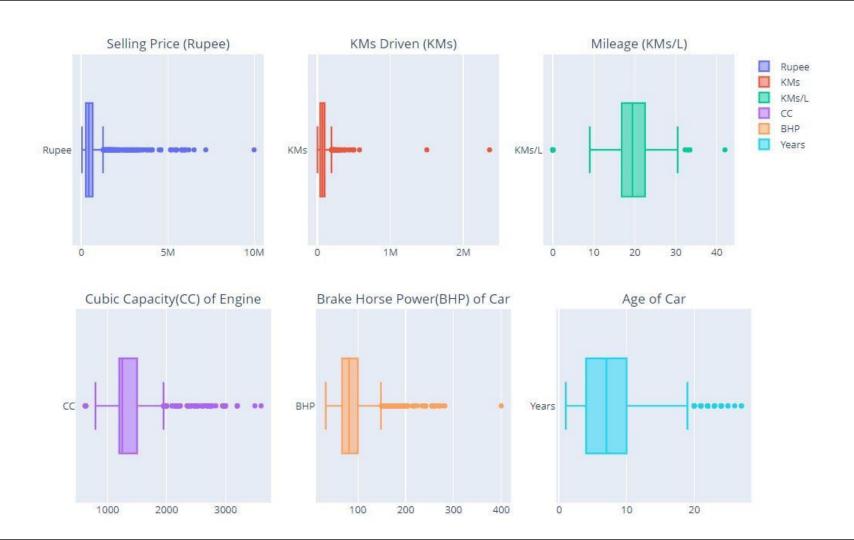


Correlation of the features



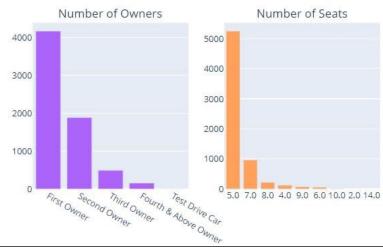
Distribution of the numerical data

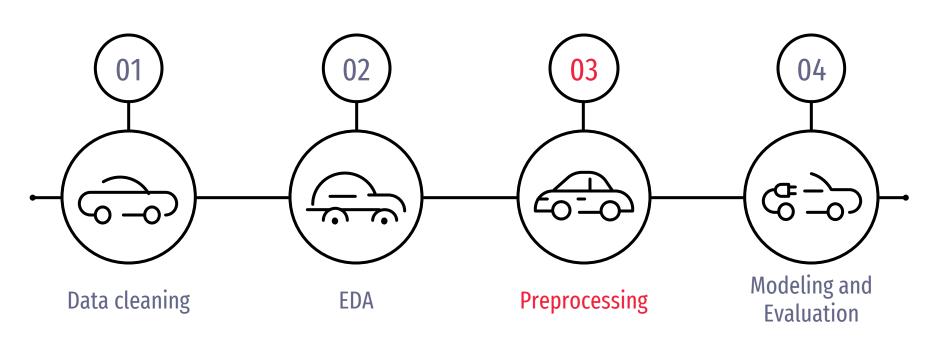




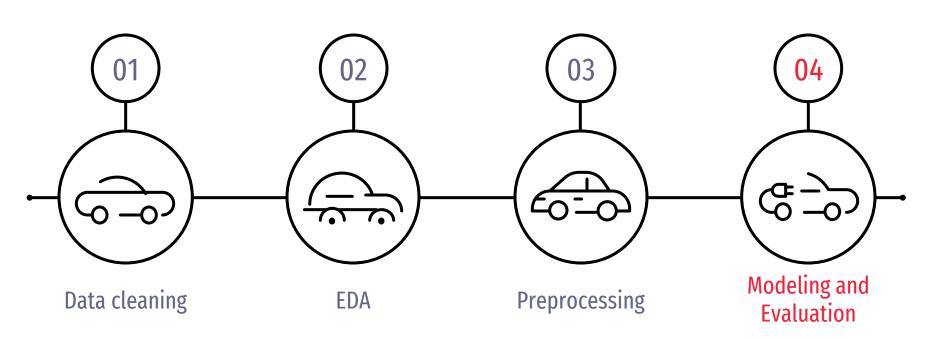
Distribution of the categorical data







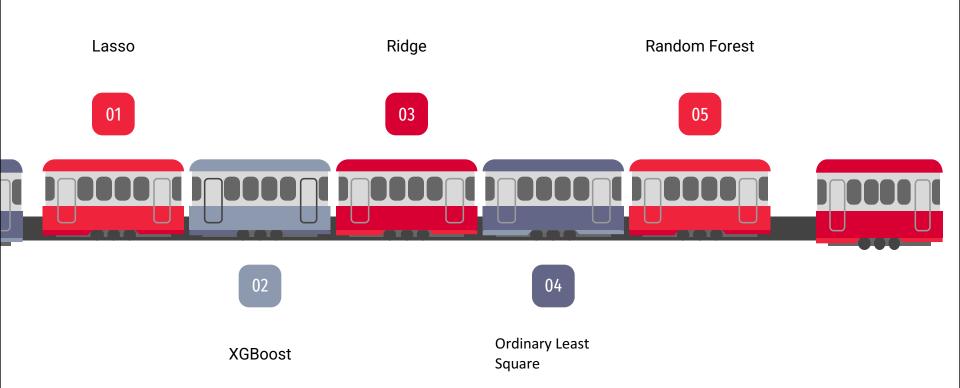
Feature engineering and data scaling



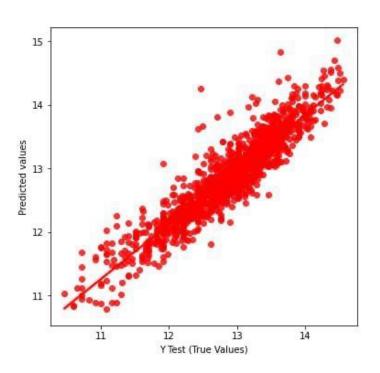
Data for modeling

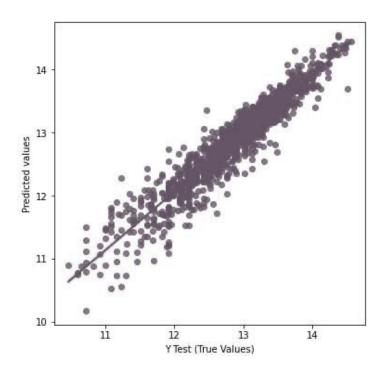
	Selling_ Price	Kms_Dr iven	Fuel_Ty pe	Seller_T ype	Transmi ssion_T ype	Owner_ Number	Mileage	Engine	Max_Po wer	Seats_N umber	Car_Ag e	Car_Bra nd
0	13.0170 03	145500	Diesel	Individu al	Manual	First Owner	23.40	1248.0	4.30406 5	5.0	1.9459 10	Maruti
1	12.8212 58	120000	Diesel	Individu al	Manual	Second Owner	21.14	1498.0	4.63976 5	5.0	1.94591	Skoda

Models

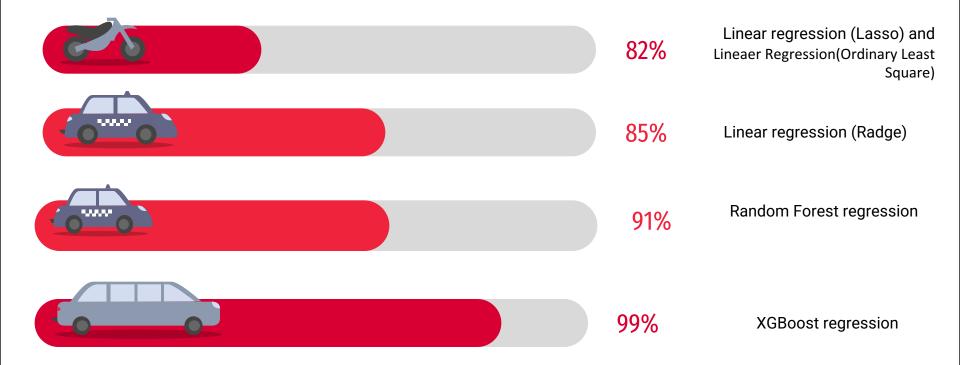


Comparing

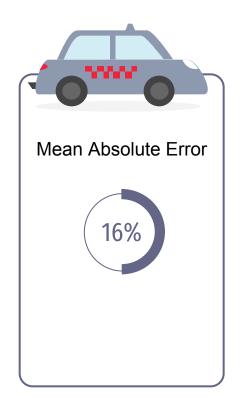


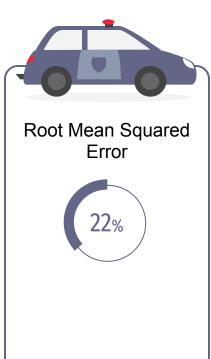


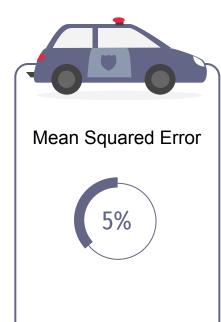
Accuracy

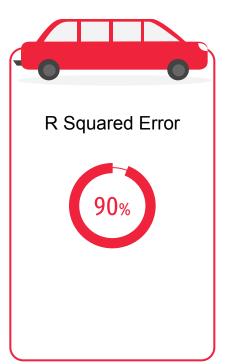


Evaluation









Thanks!

Any questions?

