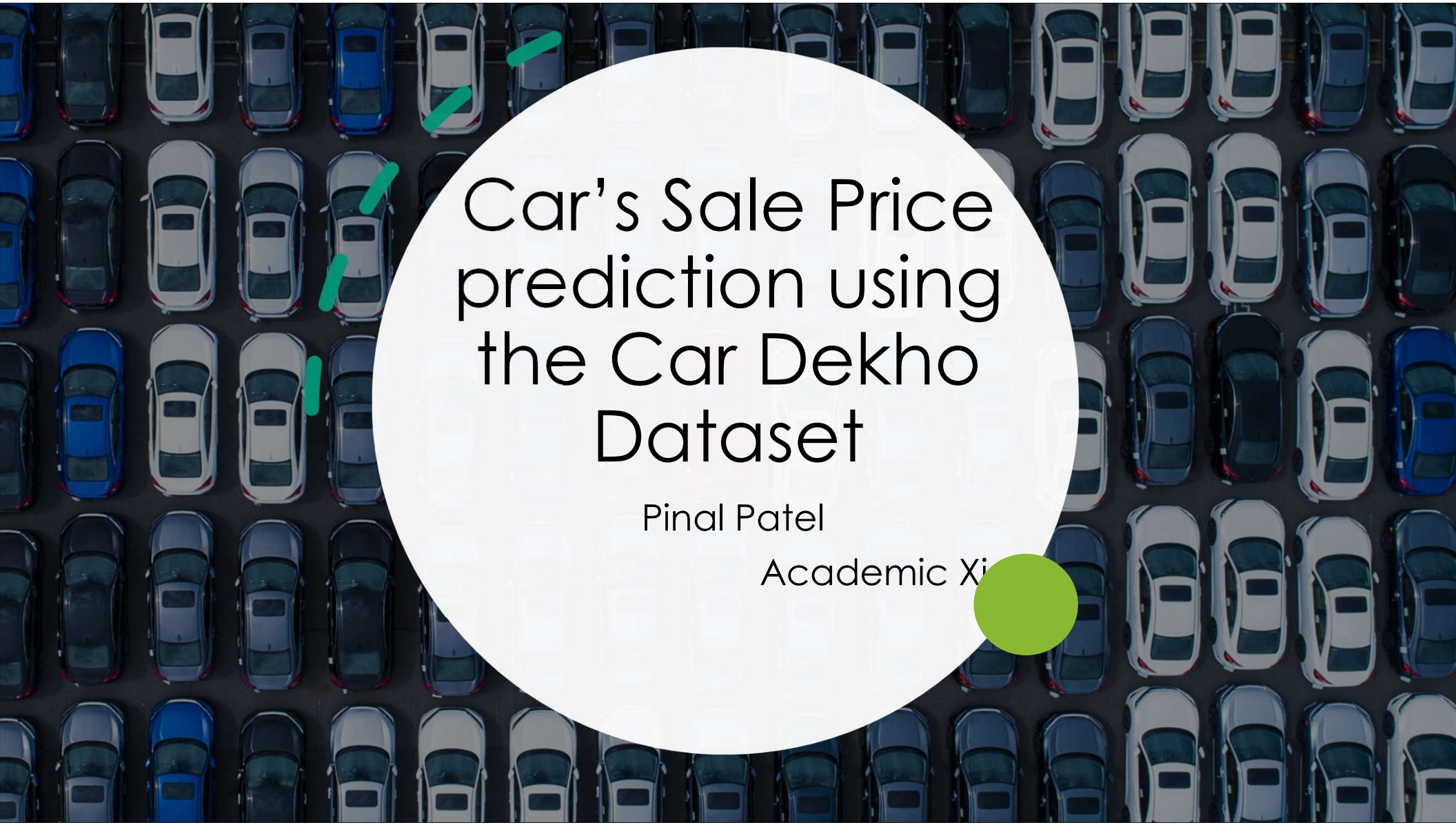


Car's Sale Price prediction using the Car Dekho Dataset

Pinal Patel

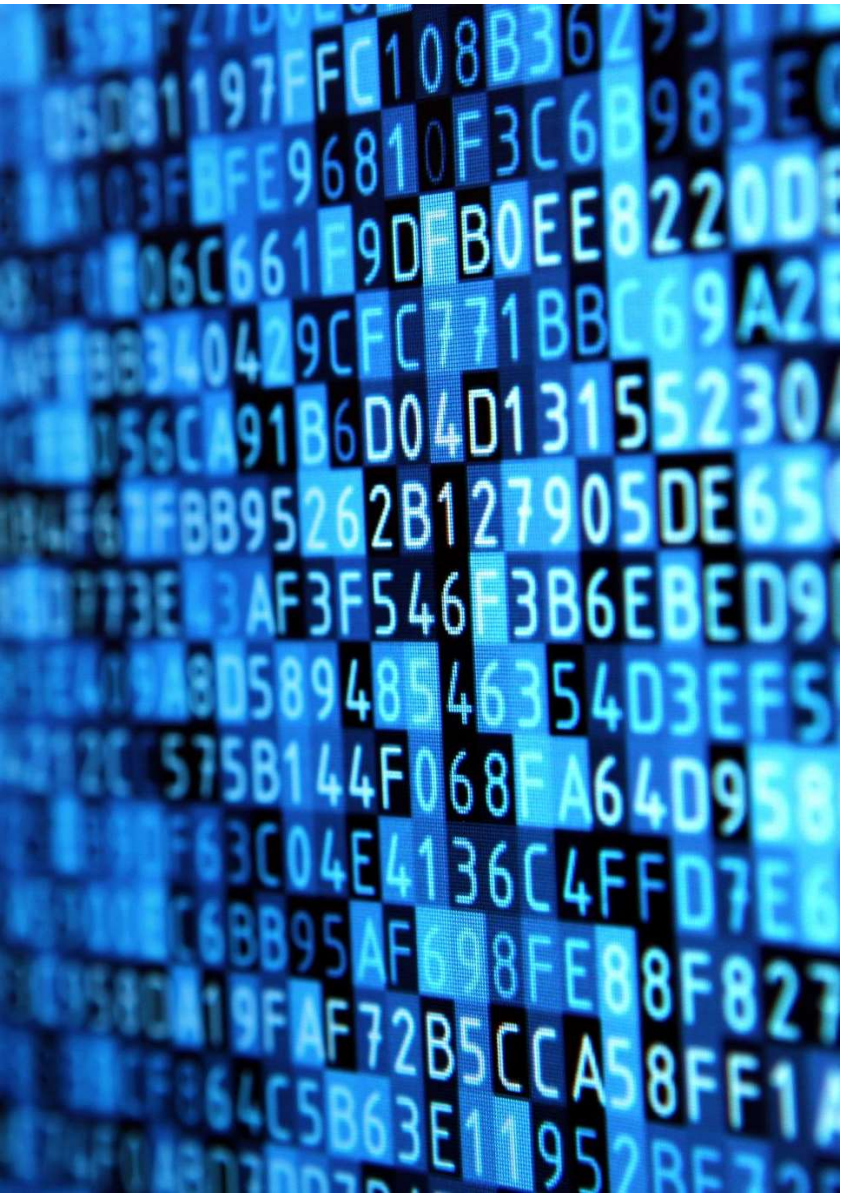
Academic Xi

Process

- The Data
- Data cleaning and pre-processing.
- Exploring the data
- Building regression models
- Validation of the model
- Result

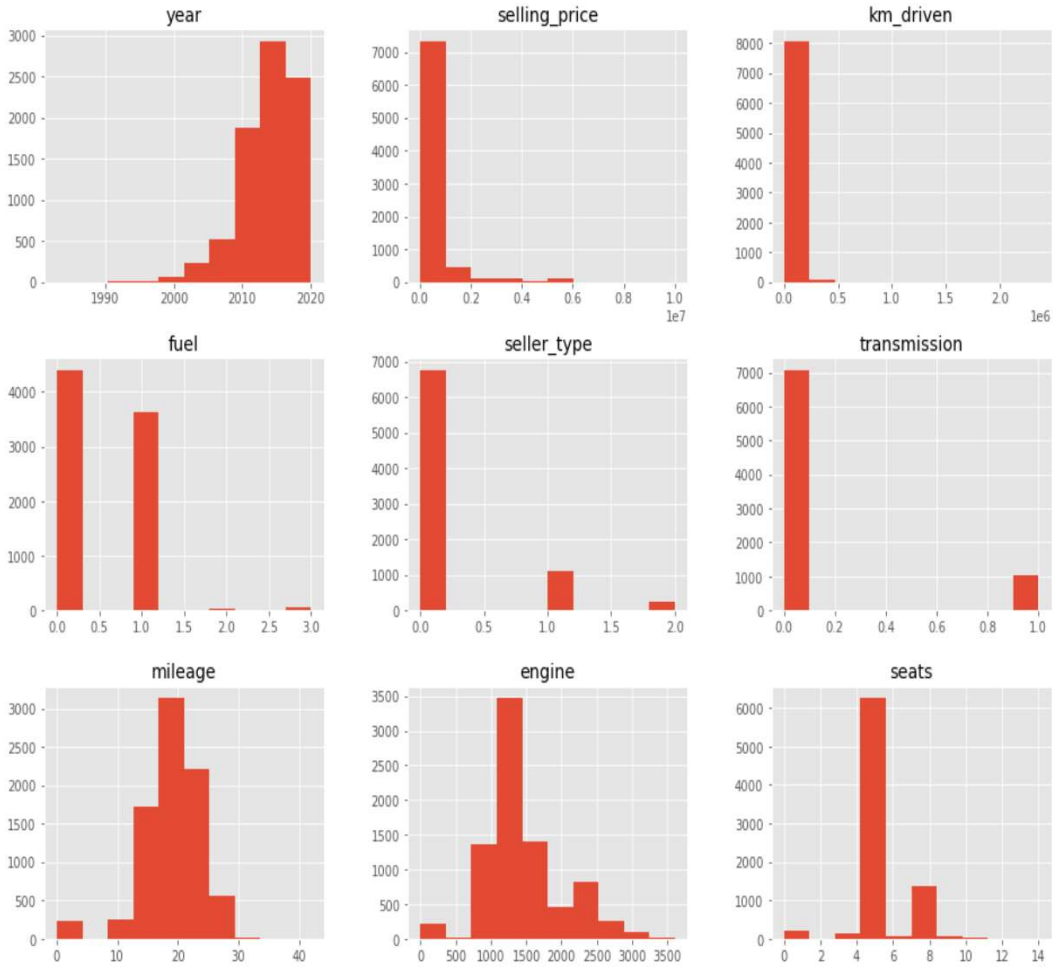
Business Problem

- Car Dekho is one of the agency who used to buy second-hand cars and performs any necessary repairs, and then sells the vehicles. Now, The agency wanted to improve their cars sales, but they don't know that which features needs to improved, based on customer interest and wanted to know on what basis customers buy cars, and the predictors will affect client purchases.

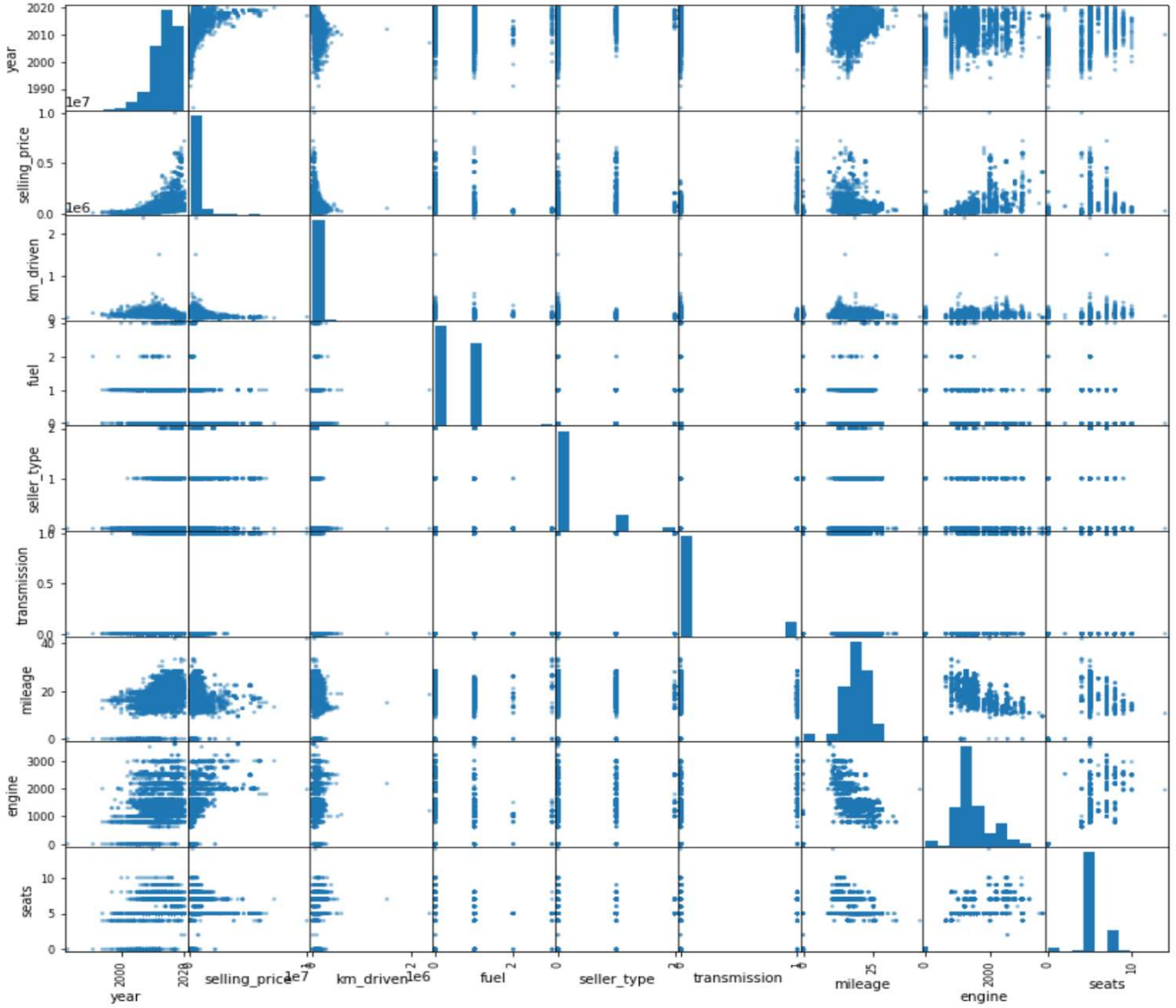


About the Data

- The data is in a CSV file which includes the following columns: model, year, selling price, showroom price, kilometers driven, fuel type, seller type, transmission, and number of previous owners, mileage, engine, Maxpower and seats.

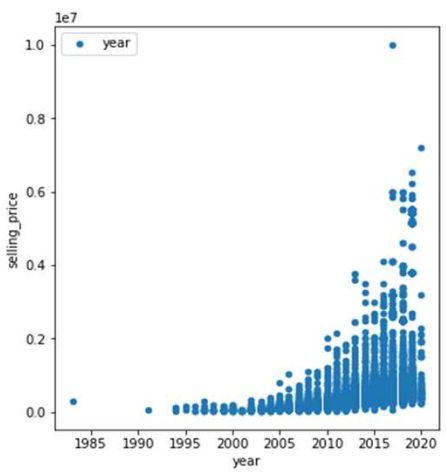


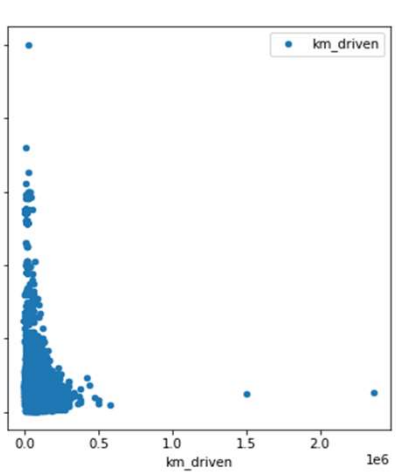
Let's have a closer look of the histogram.

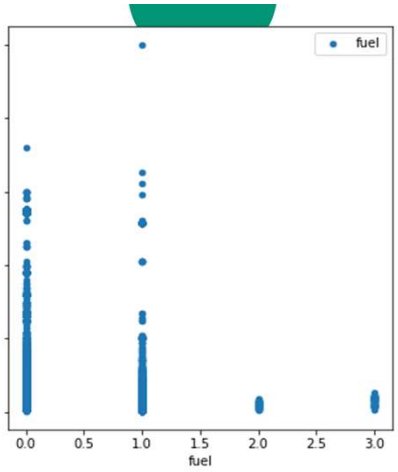


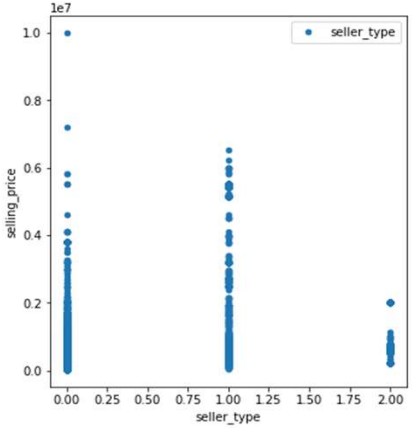
scatter matrix

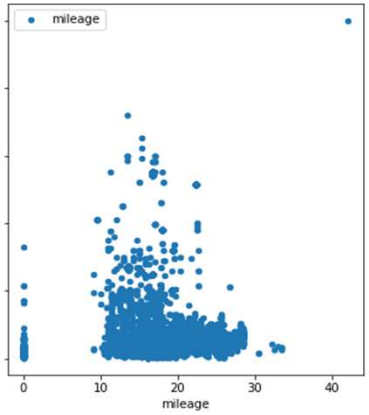
Scatter Plot

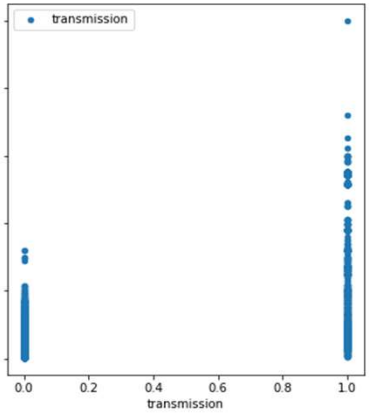


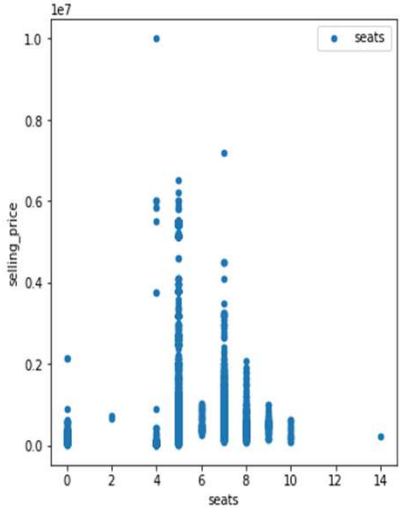


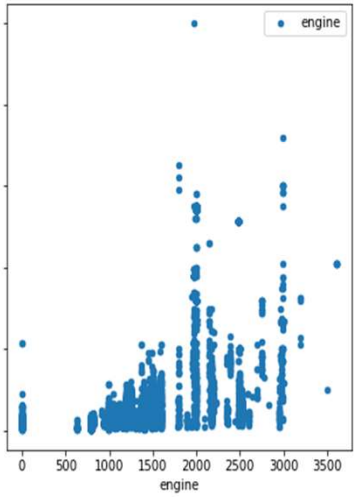


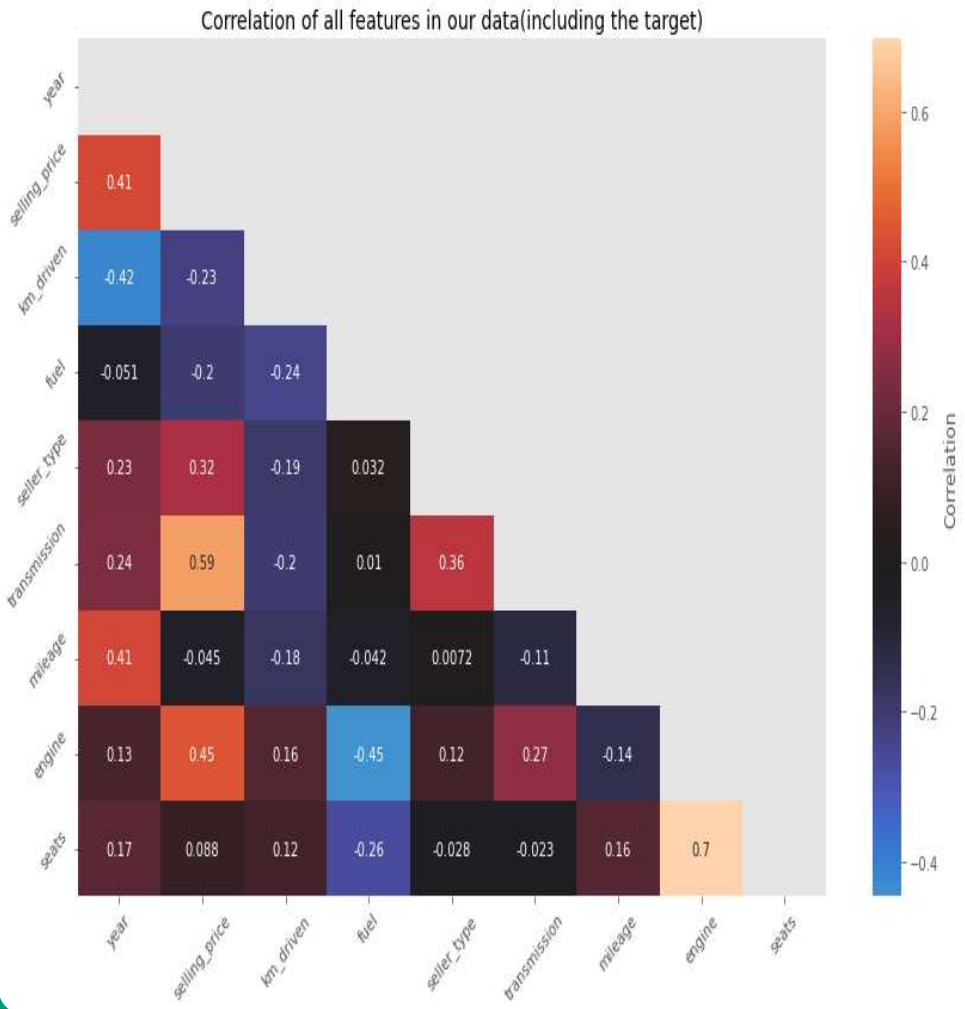




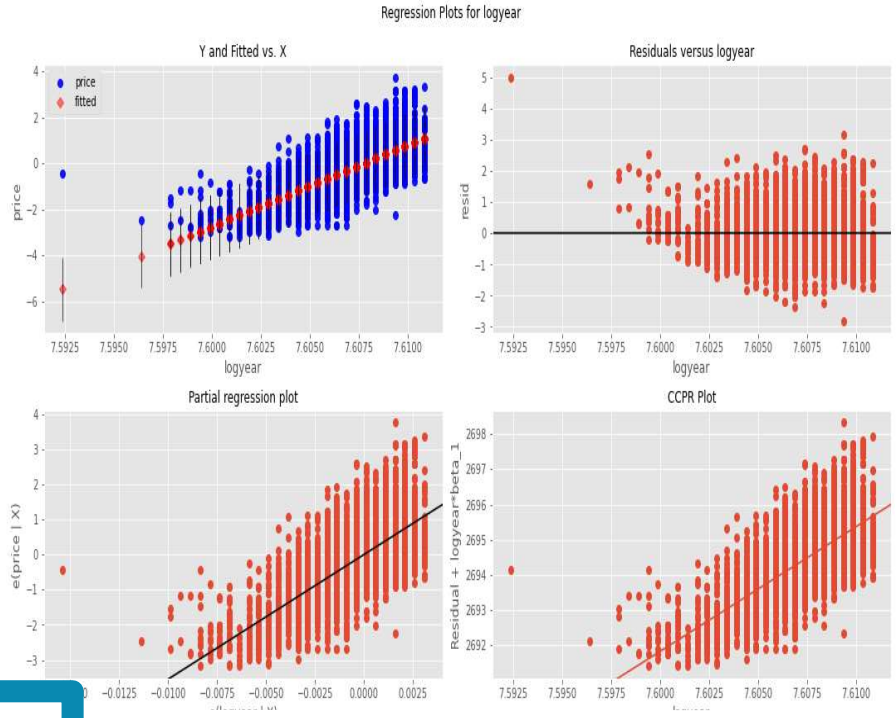






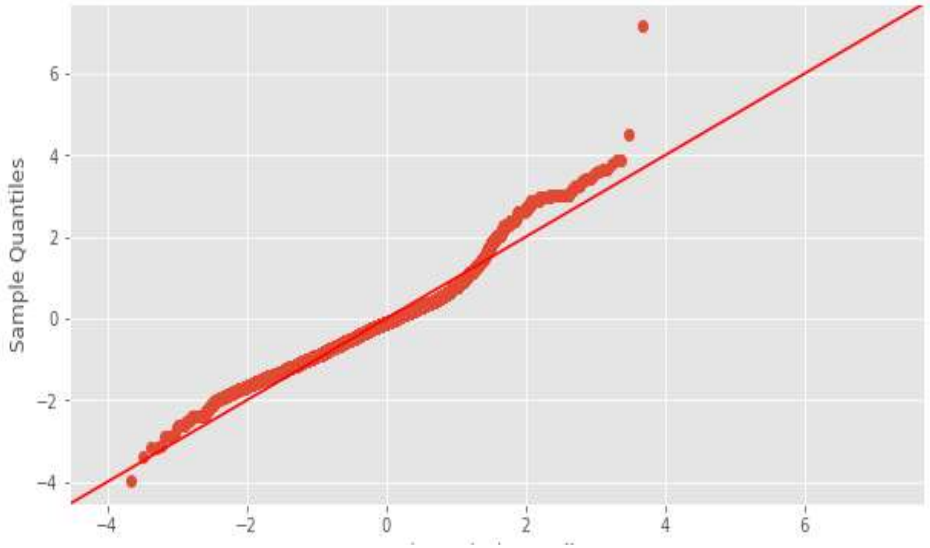


- Selling price 1.000000
- transmission 0.588845
- engine 0.445985
- year 0.414092
- seller_type 0.323047
- seats 0.088110
- mileage -0.045405
- fuel -0.202916
- km_driven -0.225534
- Name: selling price, dtype: float64



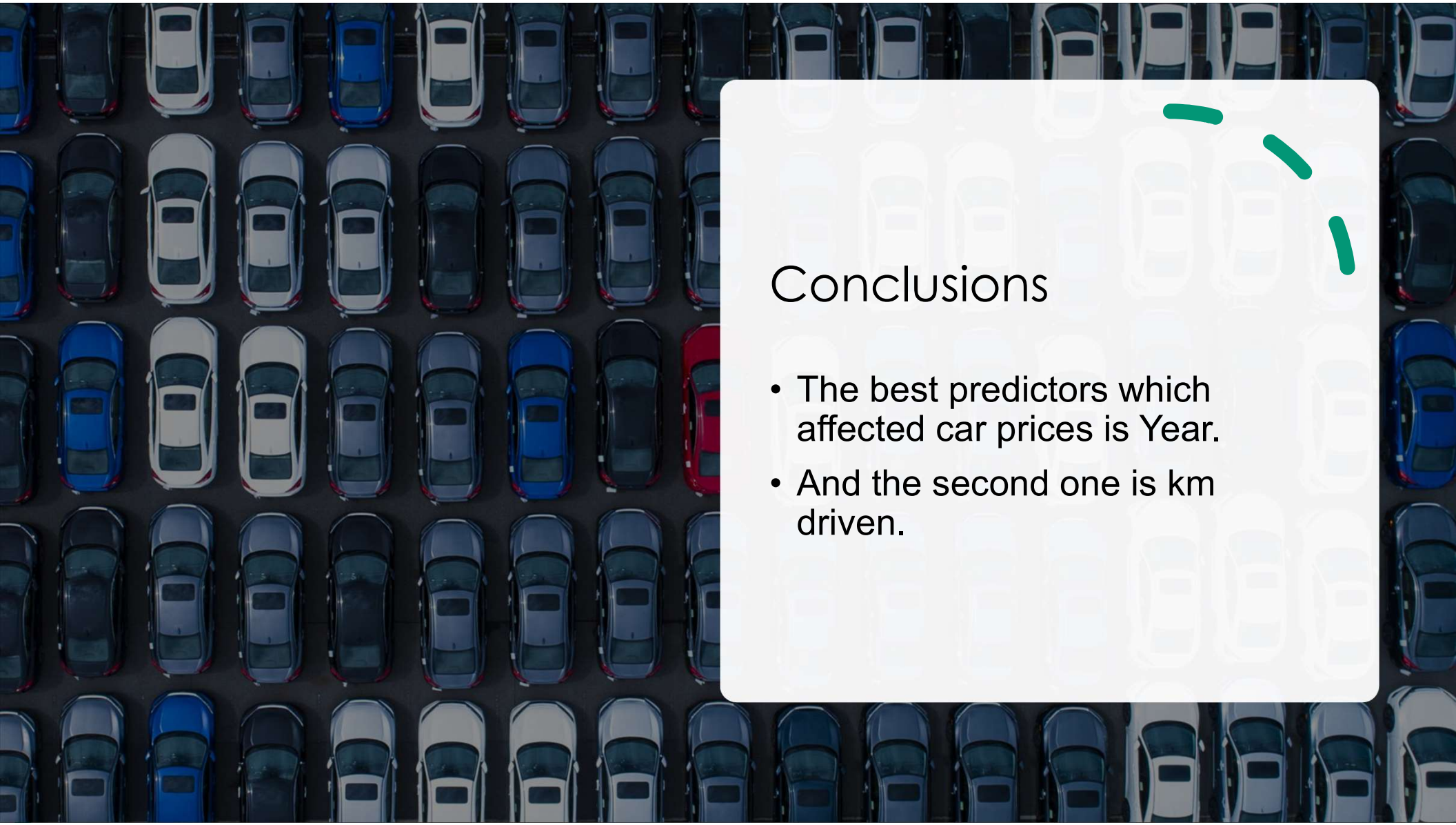
Final Model

- R-squared: 0.507
- For all the variable P-value: 0.00



Model Validation

- Train Mean Squared Error: 3.603320280642914e-32
- Test Mean Squared Error: 3.8452496119908856e-32



Conclusions

- The best predictors which affected car prices is Year.
- And the second one is km driven.

Thank you

https://github.com/pinalnikhil/cardekhomultilinearregression-.git


Any Question