

A close-up photograph of the front of a classic car, focusing on the chrome grille and two round headlights. The car is dark-colored, and the background is blurred, showing some foliage.

OYC company

for selling cars

By:

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❑ Backstory:



We are an OYC company that serves customers to buy the cars used they want with the required features. We work to meet all customer requirements and provide them according to his specific budget and desired features.



□ Tools:

- ◆ Beautifulsoup
- ◆ Pandas
- ◆ Matplot
- ◆ Sklearn.linear and sklearn.preprocessing
- ◆ Matplotlib library
- ◆ Requests
- ◆ Statsmodels
- ◆ Seaborn
- ◆ re



❑ Performing the Regression project:

Web Scraping

EDA

Features
Engineering

Modeling



❑ Data Sources:

We are scraping the data from the ksa.motory.com website for Selling used cars by beautifulsoup web scraping tools

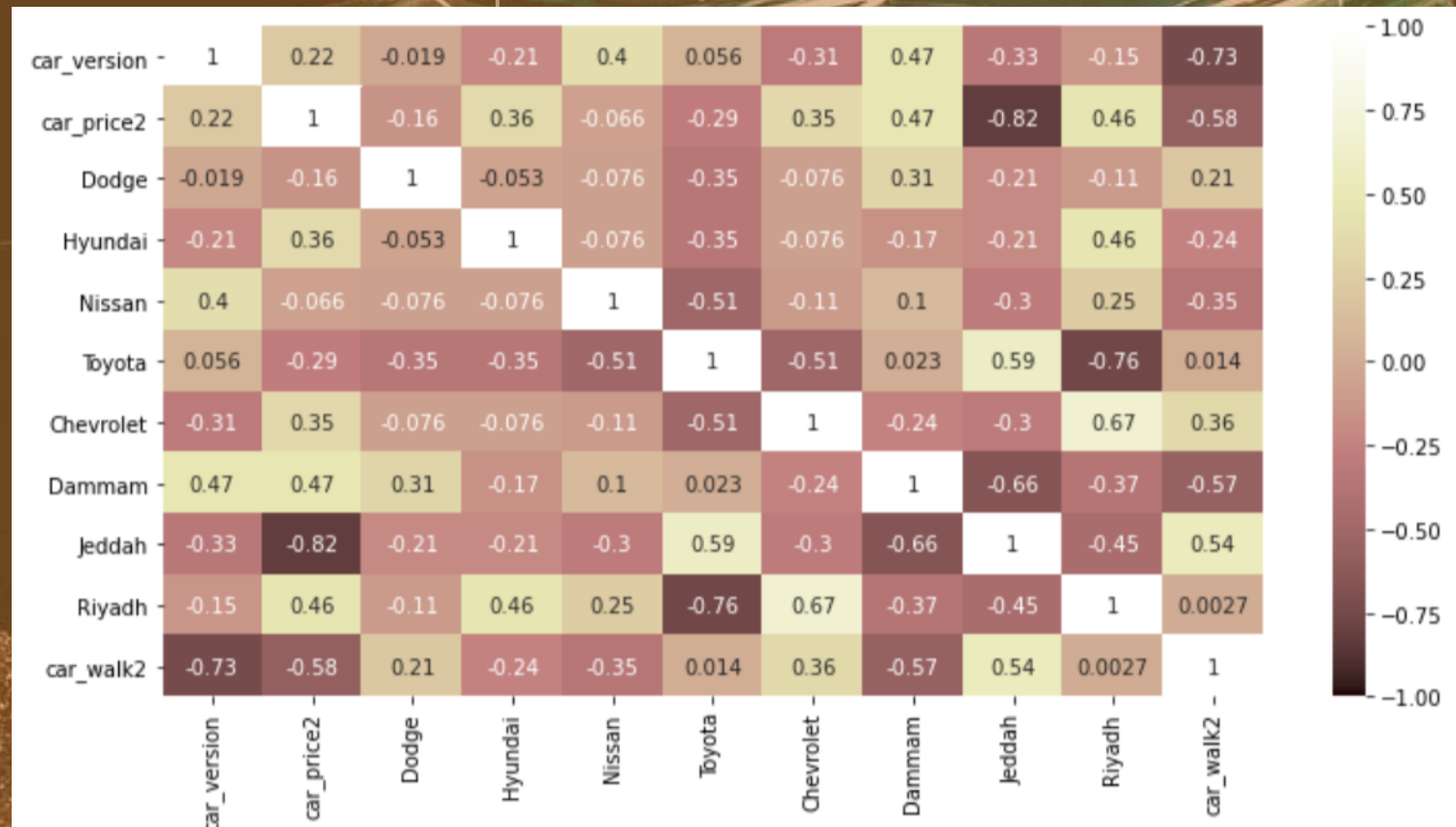
Looking for :

- Name
- Version
- Location
- Price
- Brand
- Walk car

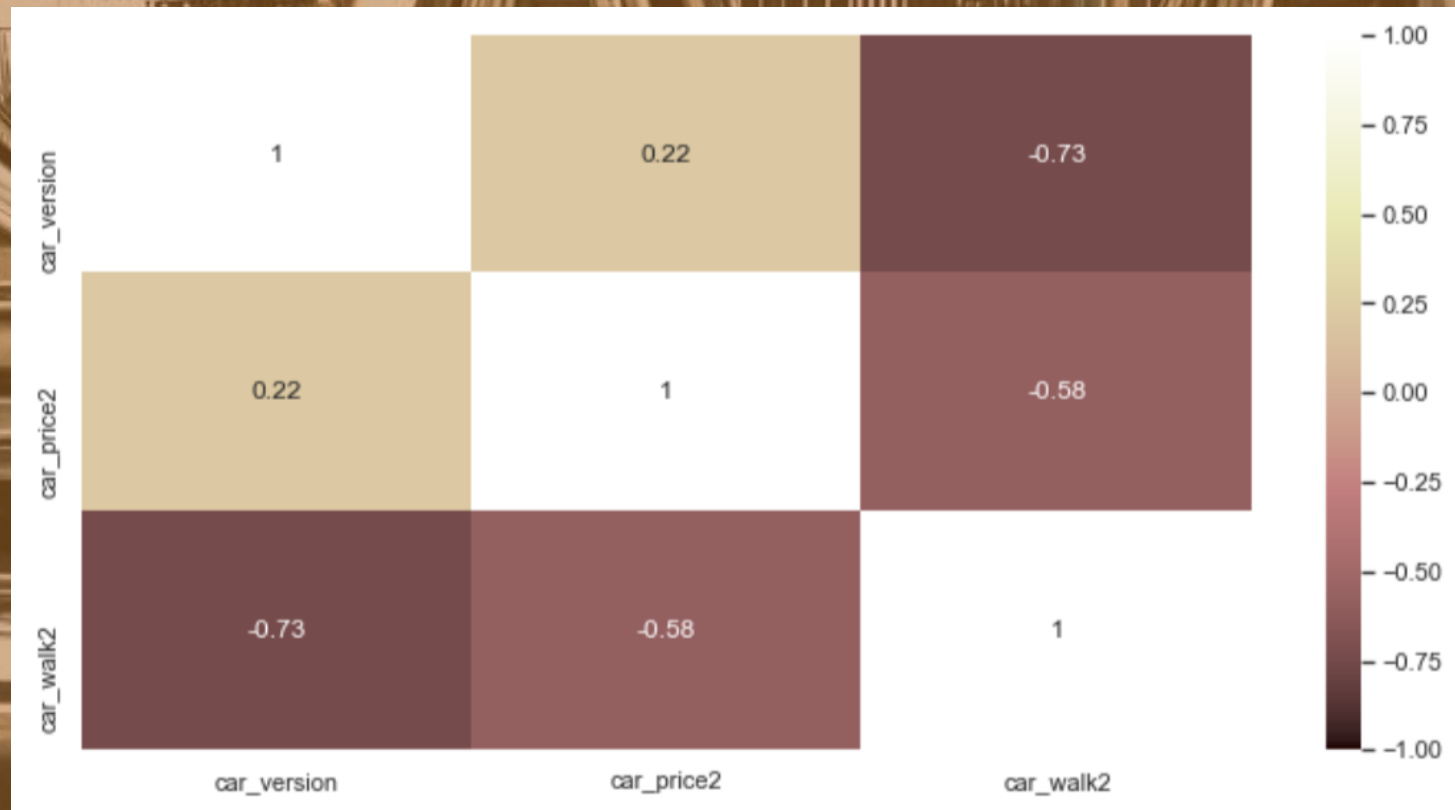


The Results:

Heatmap

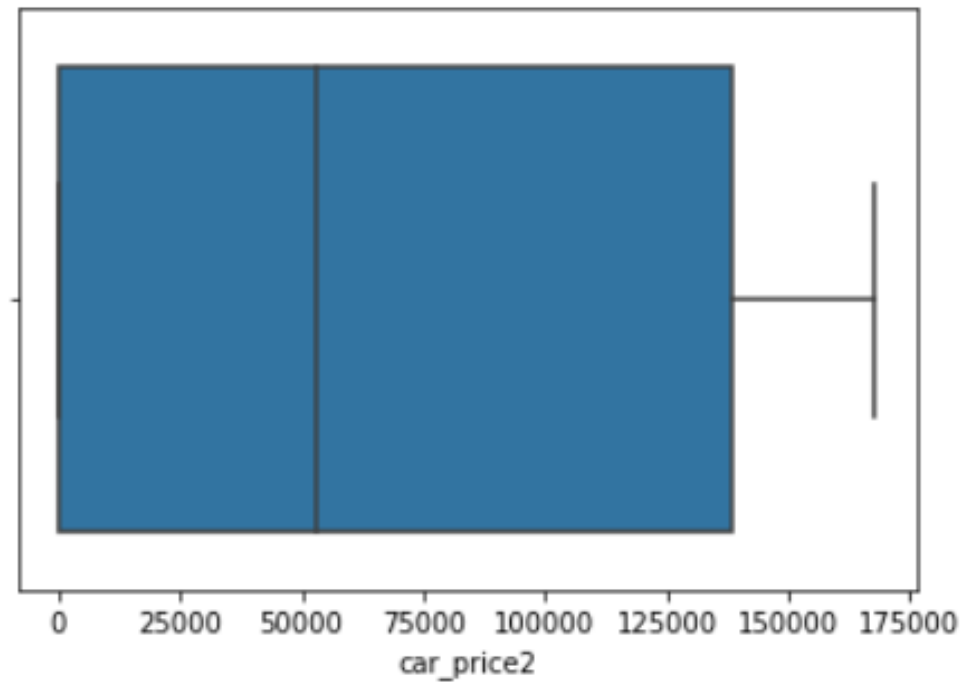


❑ Heatmap “After Selecting the Feature”

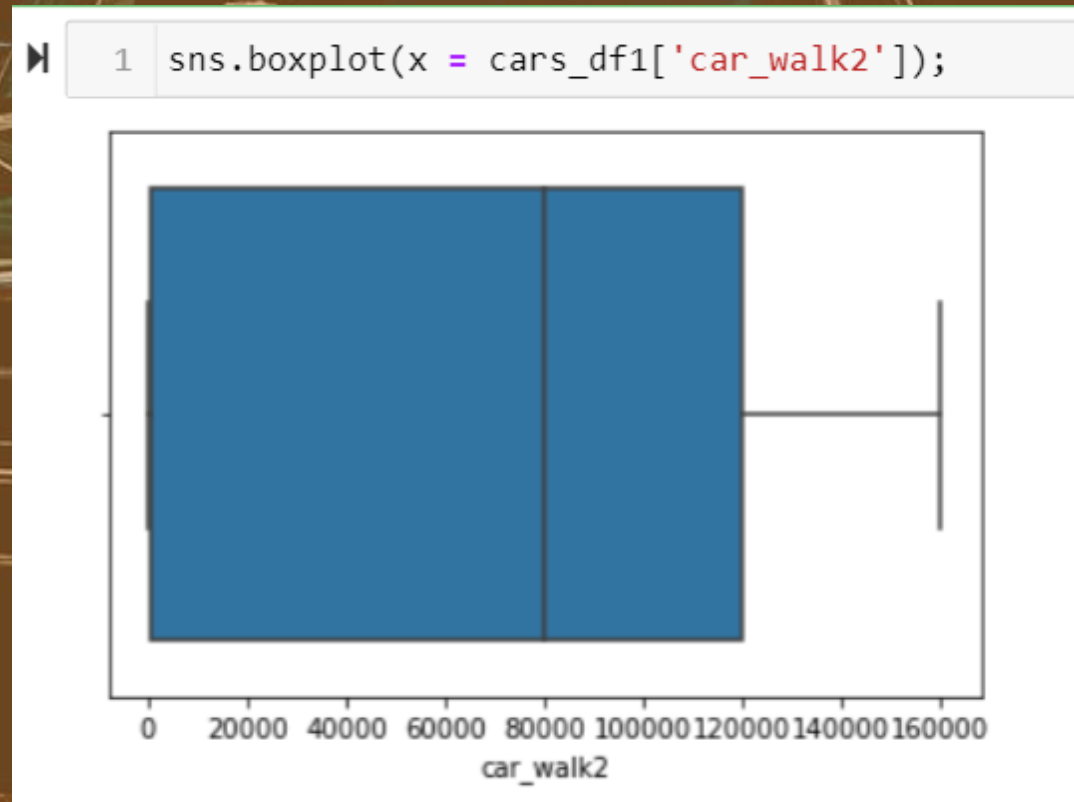


BoxPlot: “Price”

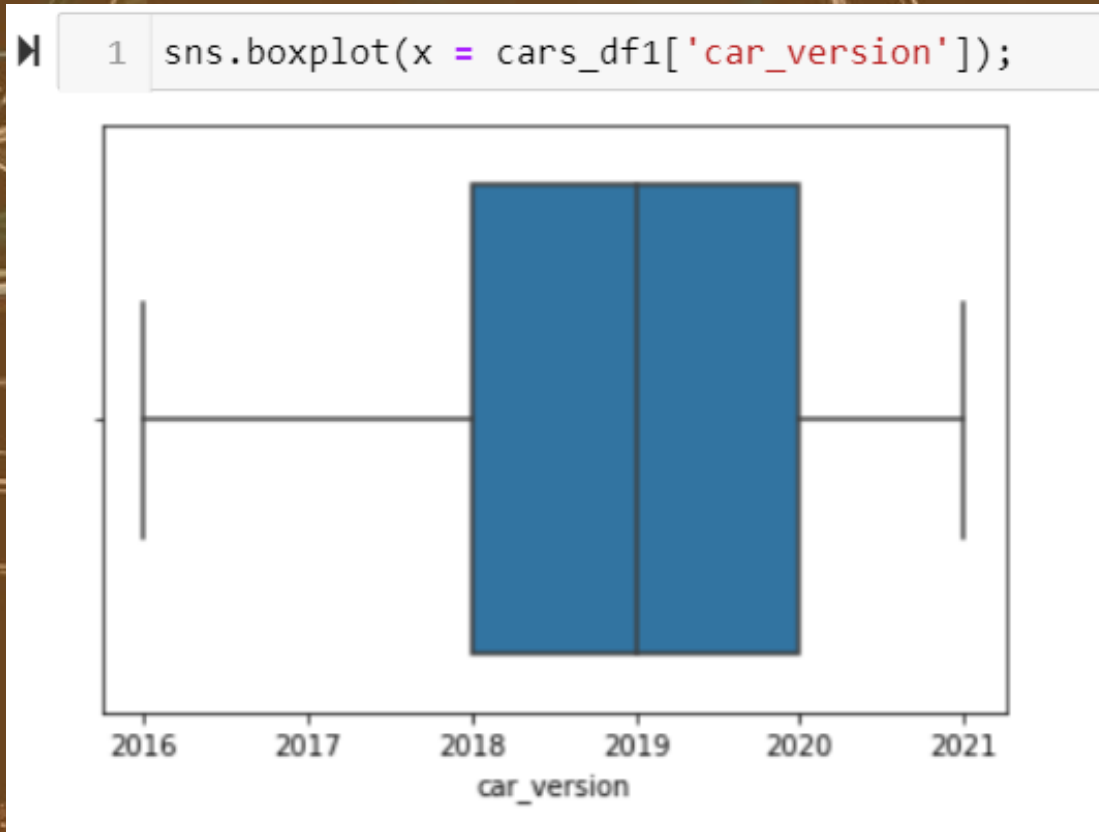
```
1 sns.boxplot(x = cars_df1['car_price2']);
```



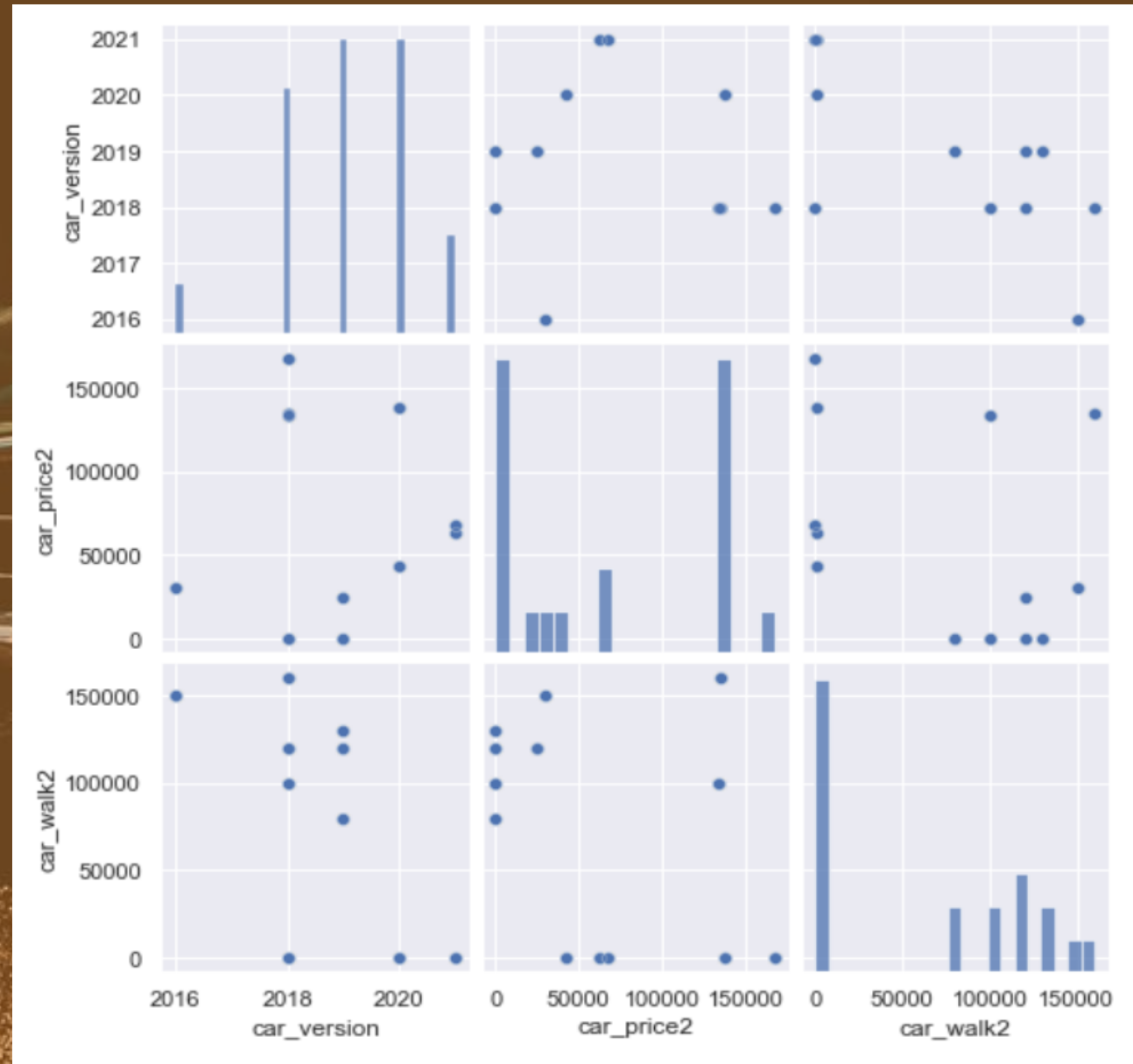
❑ BoxPlot: “Walk”



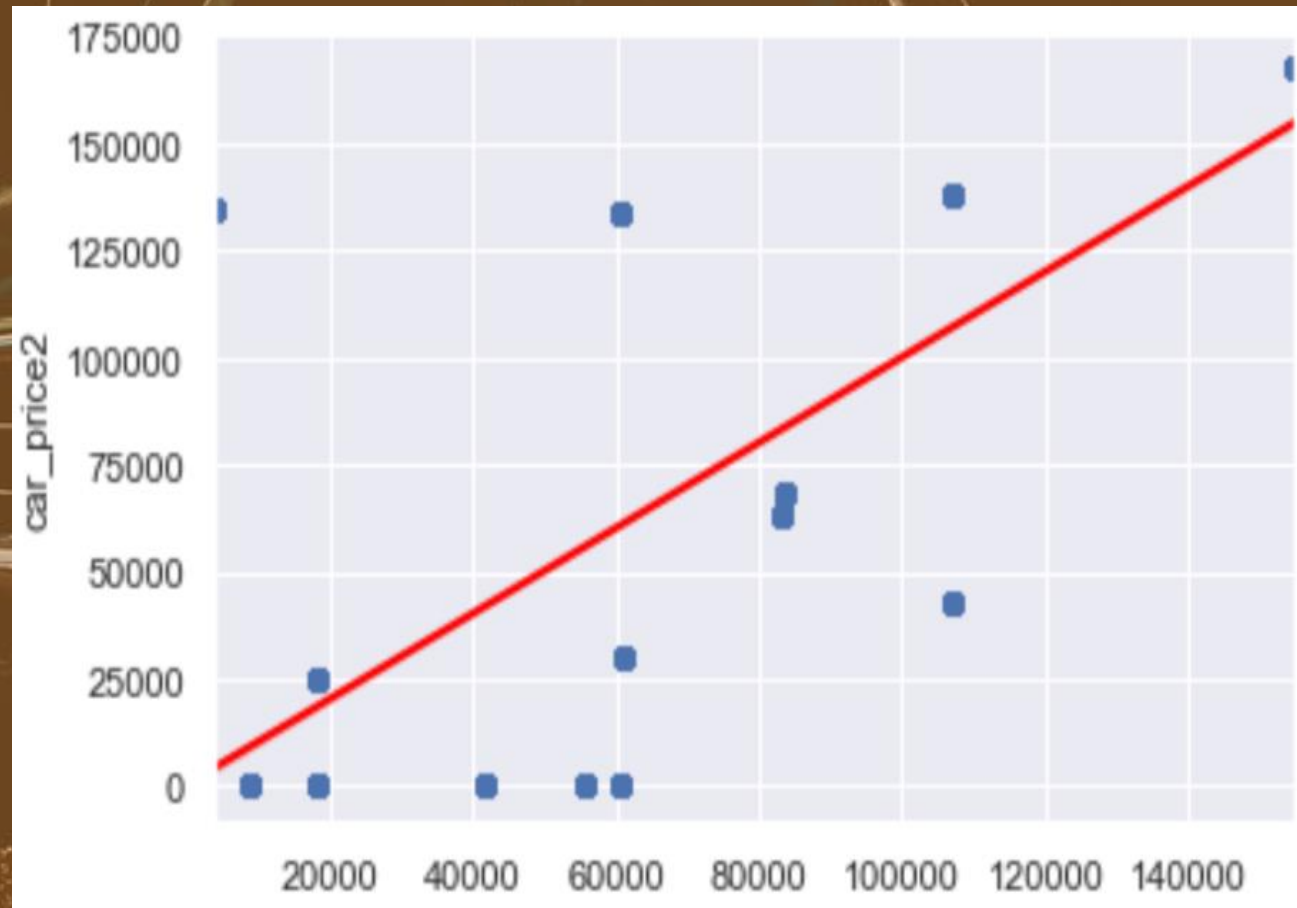
❑ BoxPlot: “Version”



PairPlot:



□ RegPlot:



❑ The Score of the Train and Validation

Different matrix :
The number of scores is few

Train score 0.43047057477992623

Val score 0.4325509645490544

MAE: 37853.48437102655

MSE: 2247757725.1515584

RMSE: 47410.52335876032

Linear Regression test R^2 : 0.437

CV for Linear model score was: 0.42800439874495544

Ridge Regression test R^2 : 0.437

CV for Ridge model was score was: 0.4280044066203529

❑ Conclusion and Future Work :

- We suggest that we collect features from another database because the current features were not enough for prediction, we need to provide new features to the dataset so that we can predict and improve a good model.
- add new columns such as (fuel type, engine size, horsepower, ...)

A close-up photograph of the front of a classic car, focusing on the chrome grille and two round headlights. The car is dark-colored, and the chrome elements are highly reflective. The background is blurred, showing some foliage and a light-colored surface.

Thank you

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