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
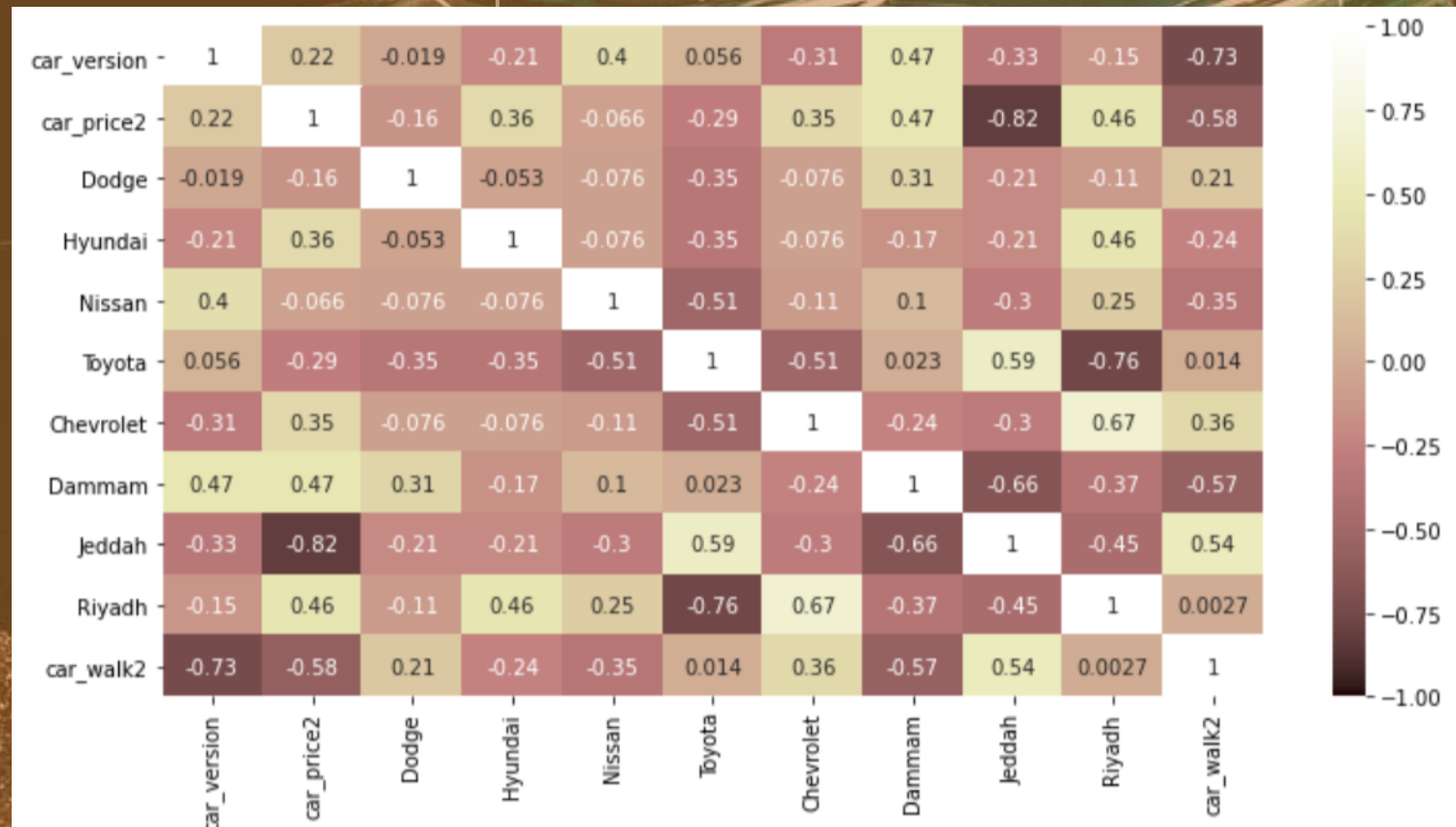
Looking for :

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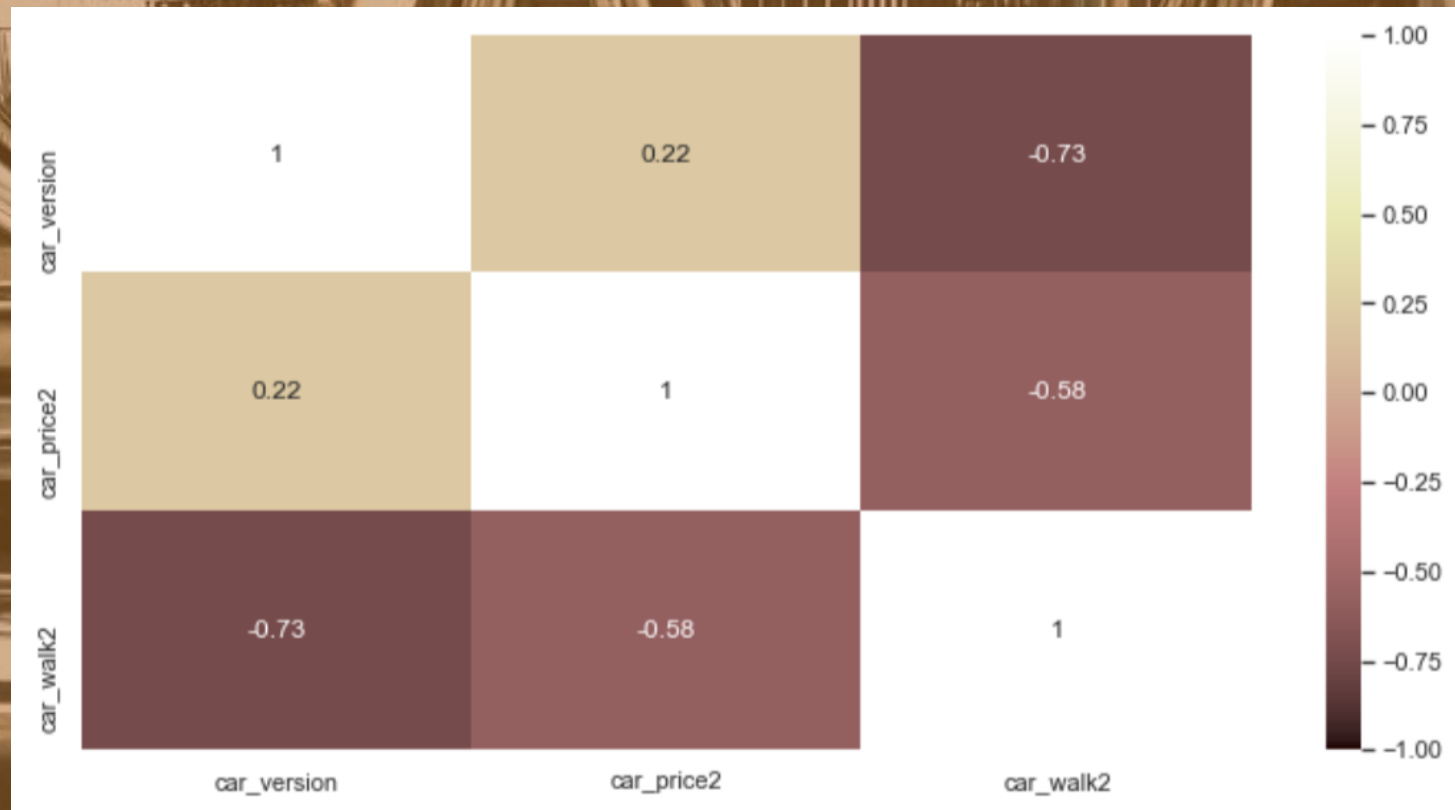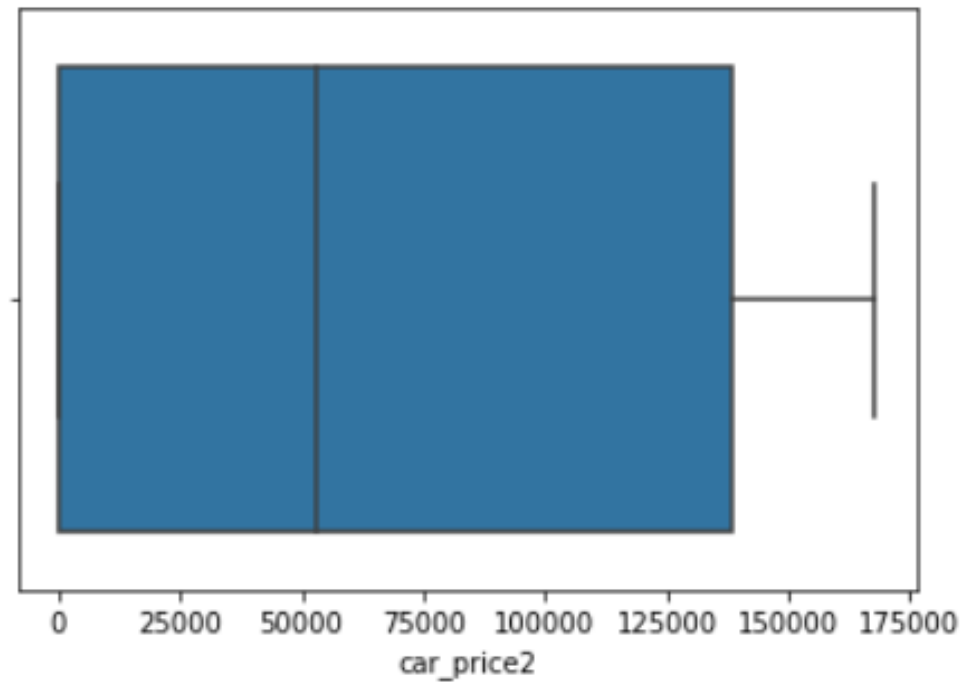- Location
- Price
- Brand
- Walk car

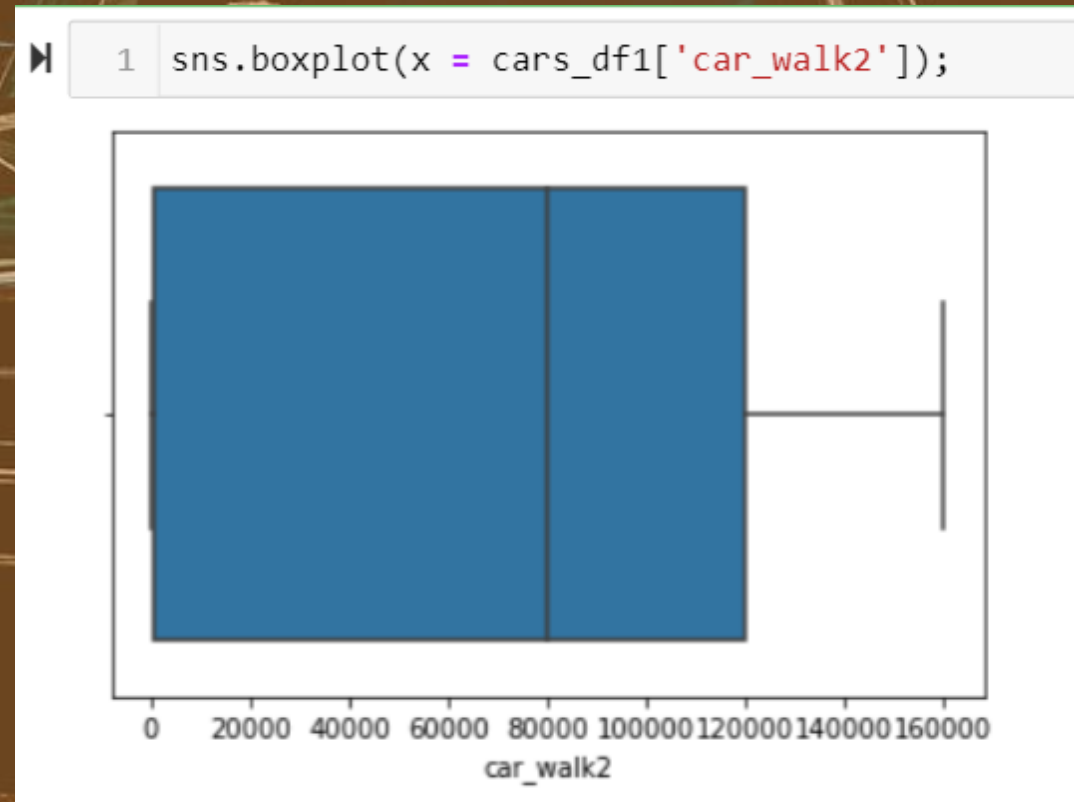# The Results:

Heatmap
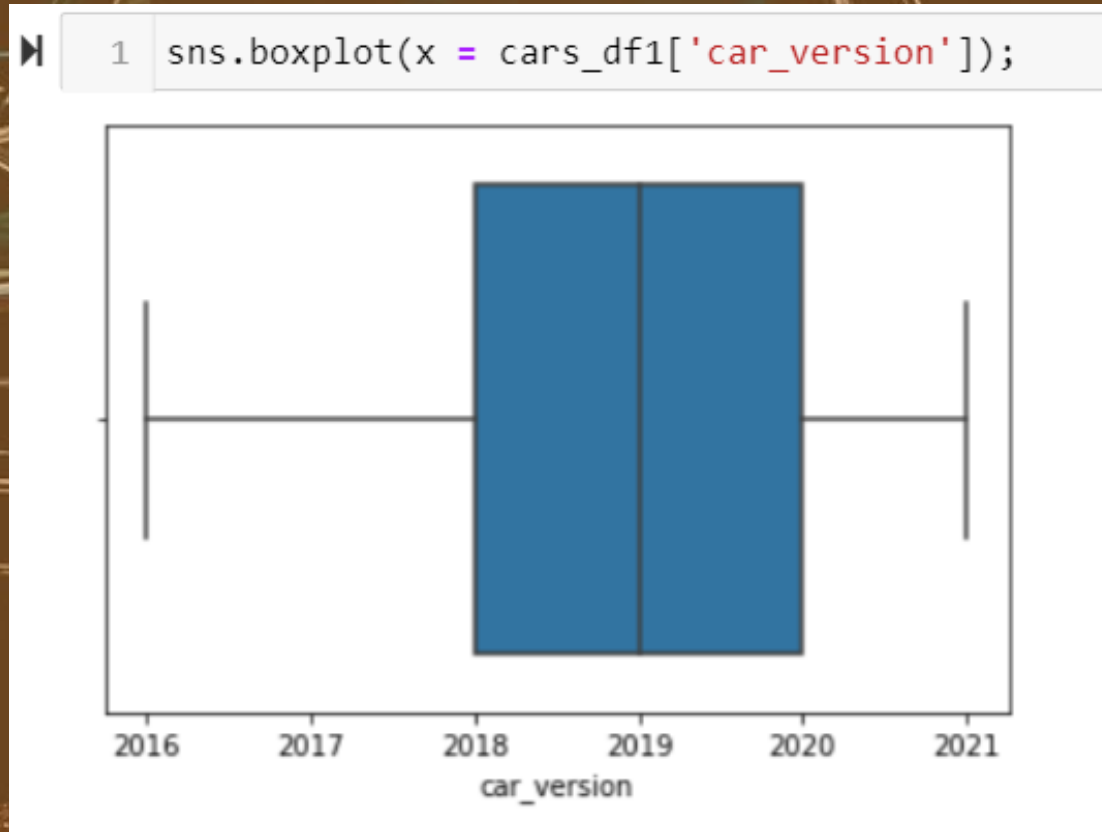
❑ Heatmap "After Selecting the Feature"

BoxPlot: "Price"

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

BoxPlot: "Walk"

```
1  sns.boxplot(x = cars_df1['car_walk2']);
```
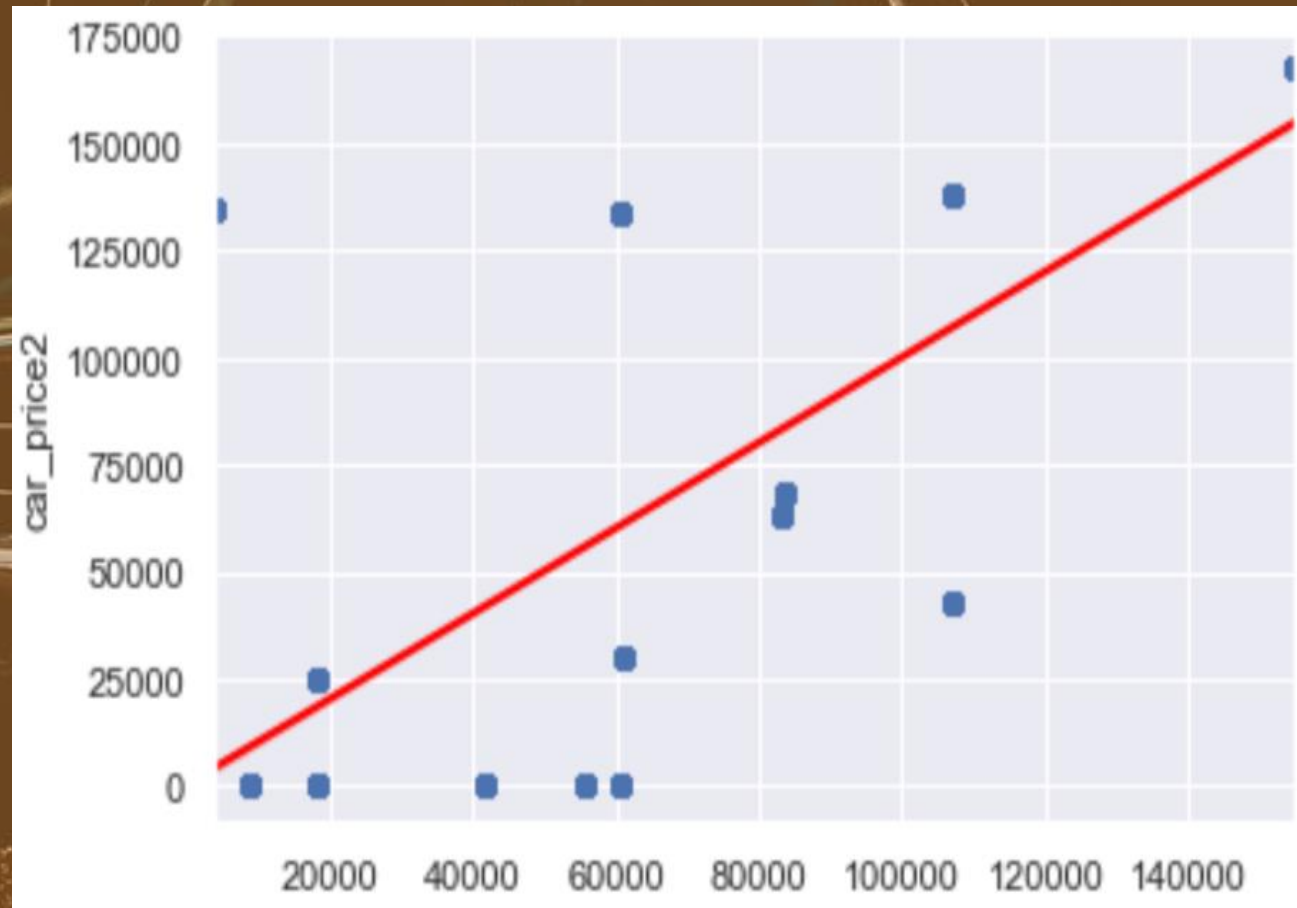
❑ BoxPlot: "Version"


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

❑ **PairPlot:**
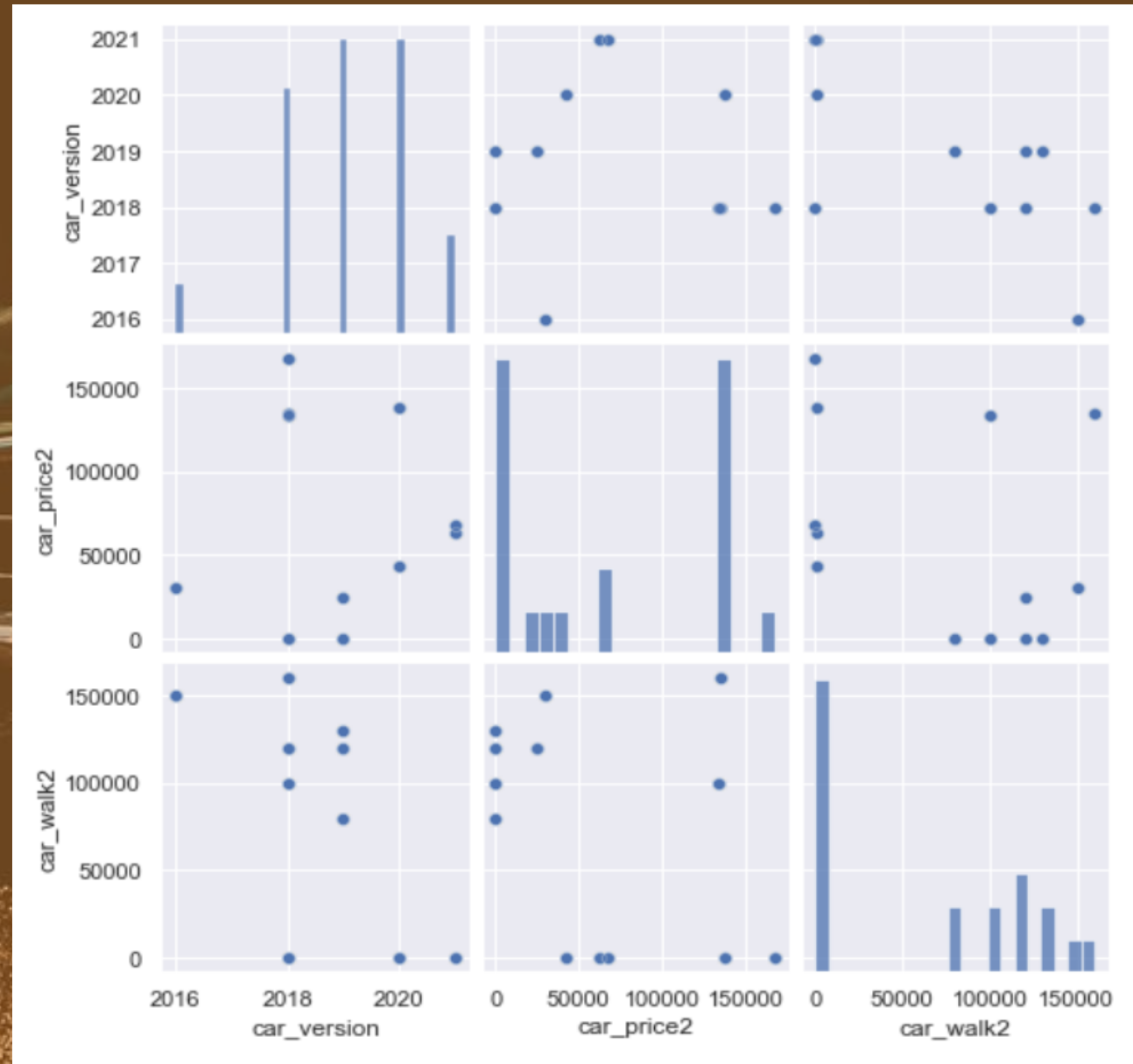
❑ **RegPlot:**

The Score of the Train and Validation

Different matrix :
The number of scores is few

```
Train score 0.586854382124053
Val score 0.565437780050551
MAE: 12512.658602711157
MSE: 462203798.0871741
RMSE: 21498.925510061523
```

❑   **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, ...)

Thank you

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