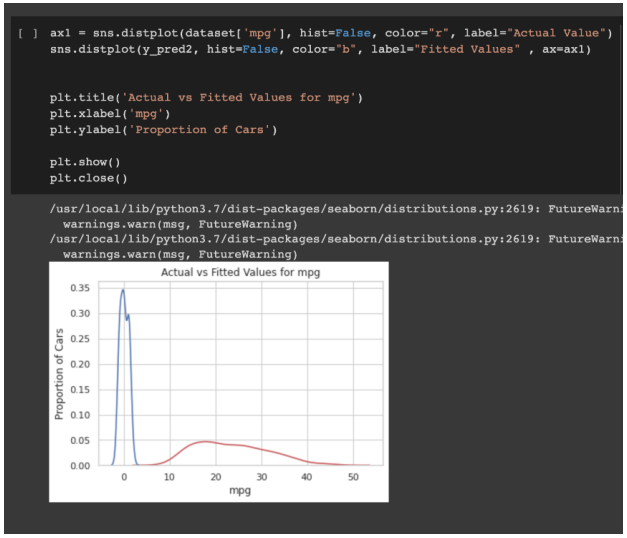
Project Development Phase
Model Performance Test

Date	14 November 2022
Team ID	PNT2022TMID05997
Project Name	Project - Machine Learning based Vehicle Performance Analyser
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in the model performance testing template.

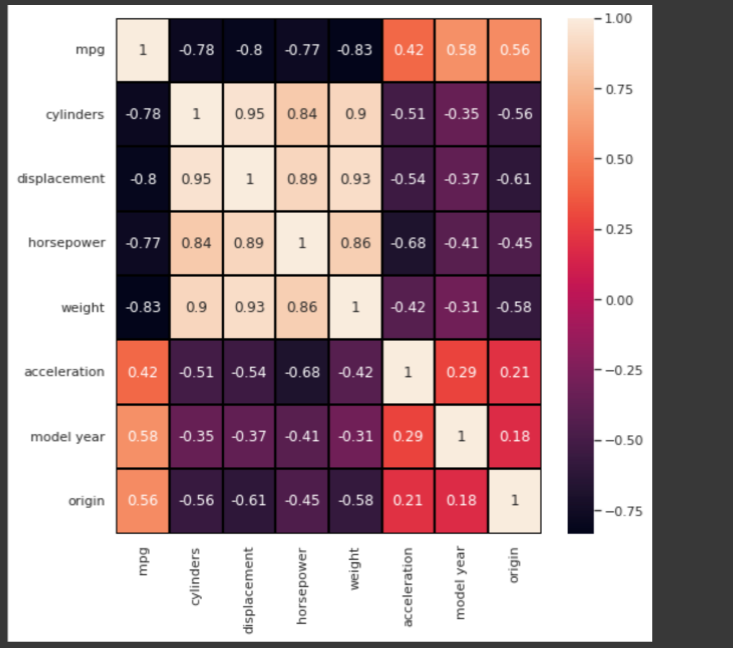
S.No.	Parameter	Screenshot / Values
1.	Dashboard design	No of Visualizations / Graphs - 

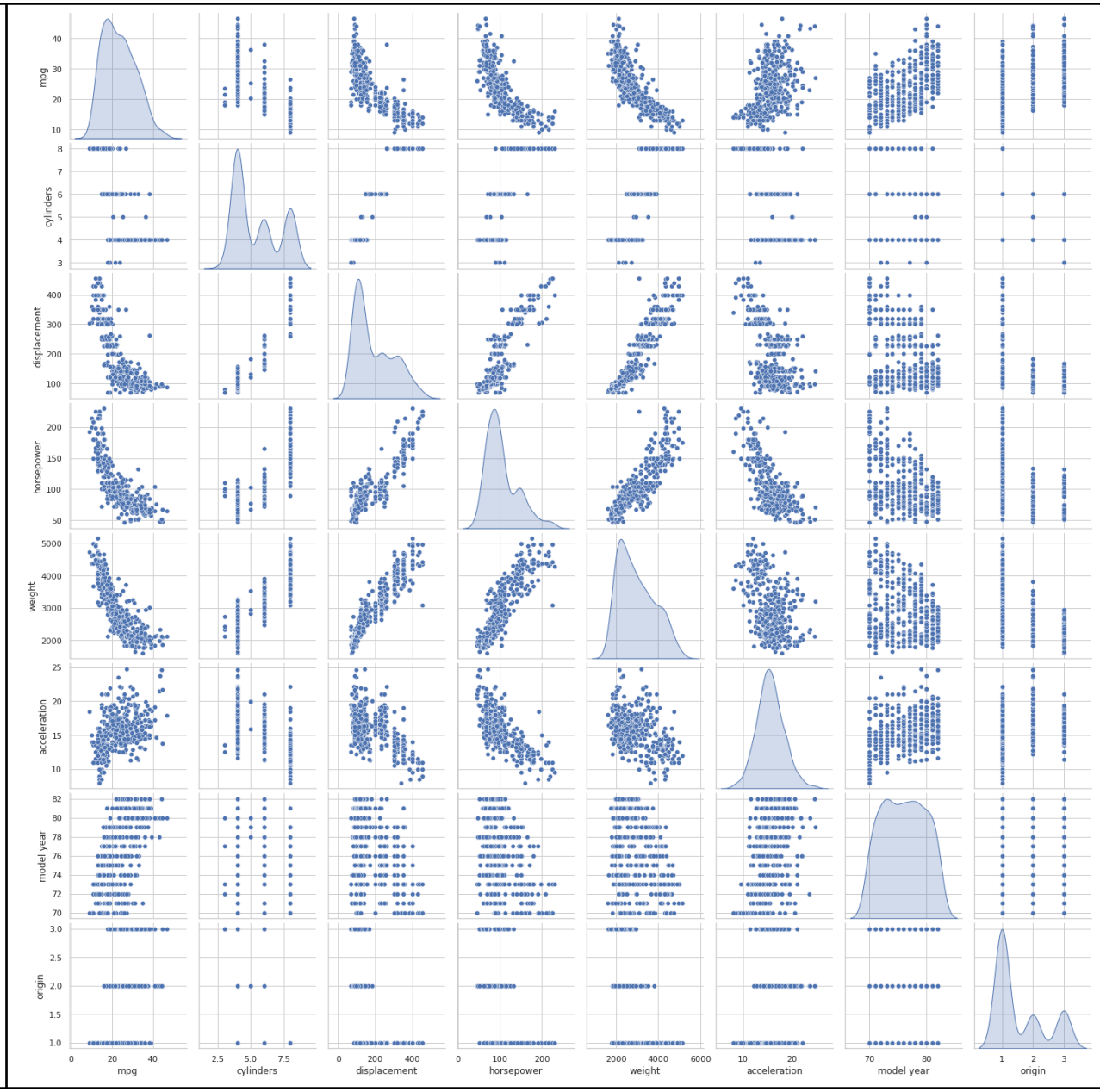
2.	Data Responsiveness	0 mpg 398 non-null float64 1 cylinders 398 non-null int64 2 displacement 398 non-null float64 3 horsepower 398 non-null float64 4 weight 398 non-null int64 5 acceleration 398 non-null float64 6 model year 398 non-null int64 7 origin 398 non-null int64 8 car name 398 non-null object
3.	Amount Data to Rendered (DB2 Metrics)	RangeIndex: 398 entries, 0 to 397
4.	Utilization of Data Filters	Standardscaler
5.	Effective User Story	No of Scene Added - 5 Worst performance with mileage Low performance with mileage Medium performance with mileage High performance with mileage Very high performance with mileage
6.	Descriptive Reports	No of Visualizations / Graphs -

Data Visualizations

Heatmap : which represents correlation between attributes

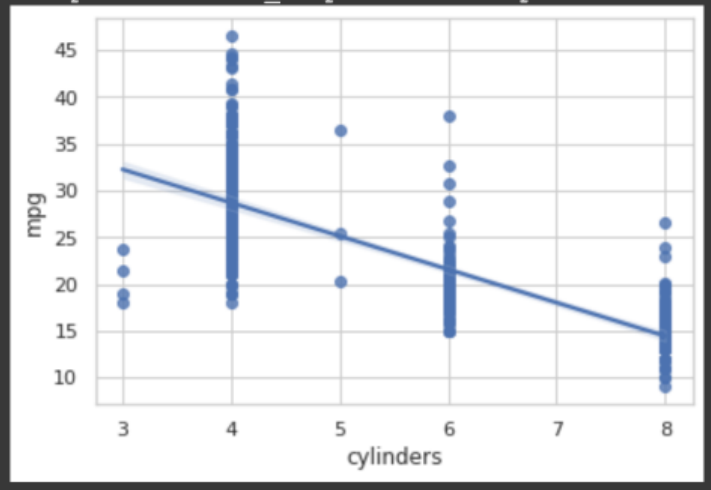
```
sns.heatmap(dataset.corr(),annot=True,linecolor ='black', linewidths = 1
fig=plt.gcf()
fig.set_size_inches(8,8)
```




mpg
cylinders
displacement
horsepower
weight
acceleration
model year
origin

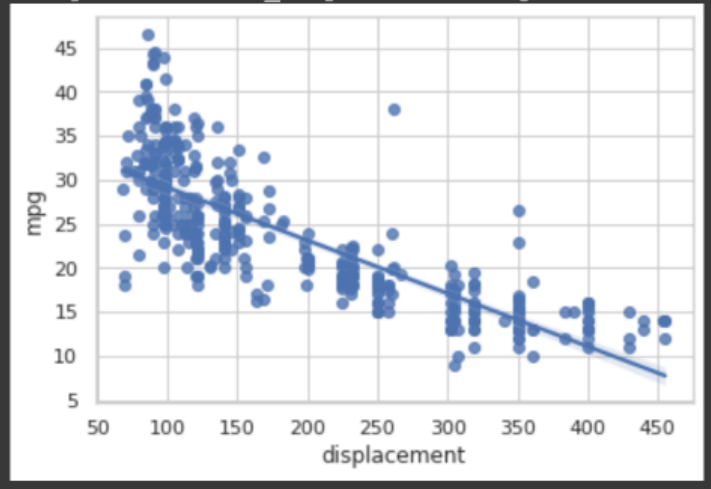
```
[ ]  sns.regplot(x="cylinders", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df3576cd0>
```



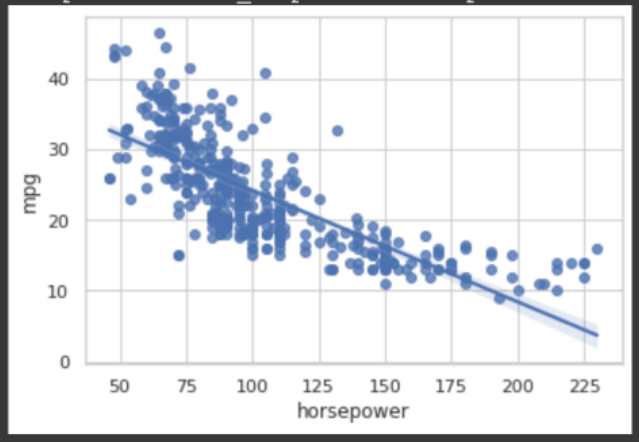

```
sns.regplot(x="displacement", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df3431150>
```



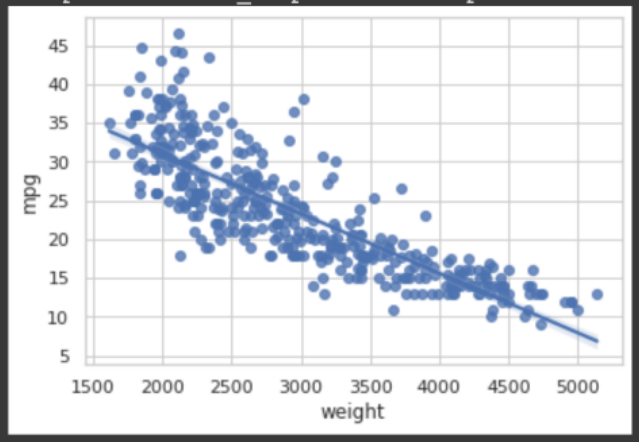
```
sns.regplot(x="horsepower", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df3410a90>
```



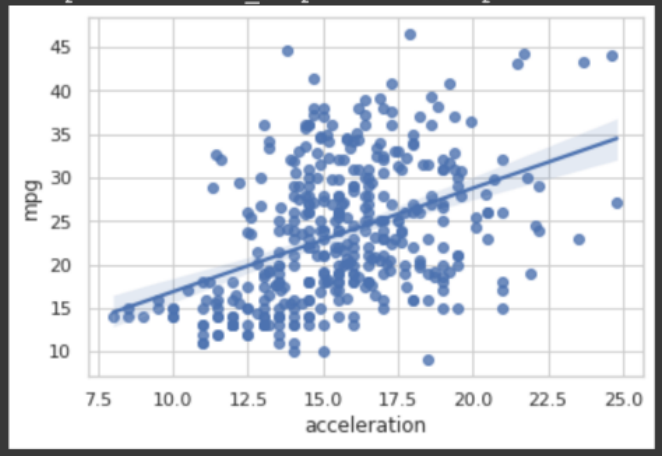

```
[ ] sns.regplot(x="weight", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df339ed90>
```



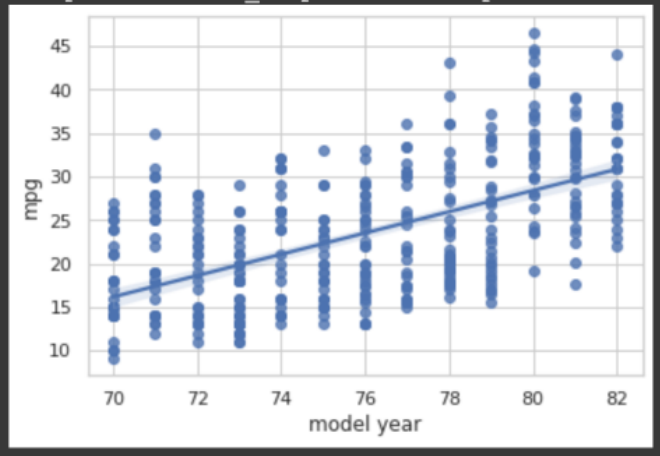
```
sns.regplot(x="acceleration", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df330cd90>
```



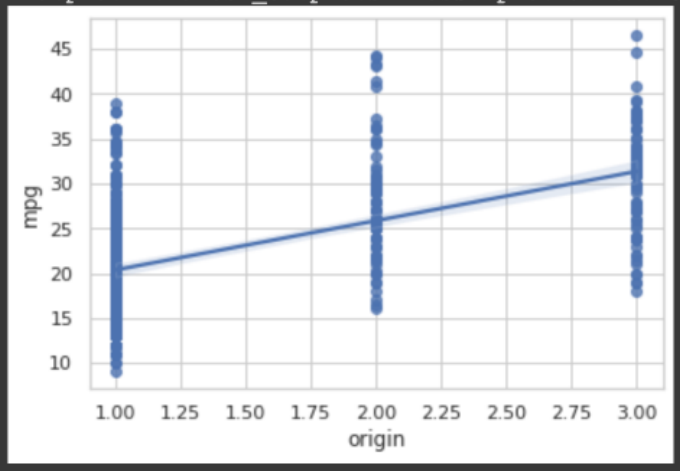

```
[ ] sns.regplot(x="model year", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df3295290>
```



```
sns.regplot(x="origin", y="mpg", data=dataset)
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df31f9890>
```




```
[ ] sns.set(style="whitegrid")
    sns.boxplot(x=dataset["mpg"])
```

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f5df3182b10>
```