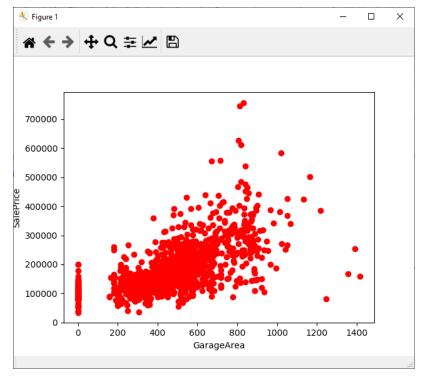
which numbers are anomalies.

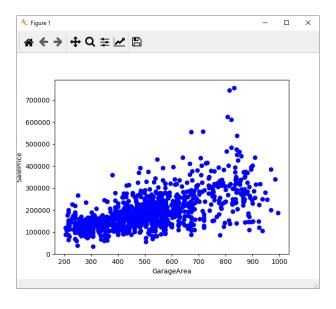
Date Submitted: 02/23/2020

Video Link: https://www.loom.com/share/ddac364d37a6404d9e5affd78d719a77

1. Delete all the outlier data for the Garage Area field (for the same data set in the use case: House Prices).* for this task you need to plot Gaurage Area field and Sale Price in scatter plot, then check

```
import pandas as pd
import matplotlib.pyplot as plt
                                                                                    🥏 guagearea_1 >
#Read data from dataset
                                                                                       C:\ProgramData\Anaconda3\python.exe "C:/Users/ld63
train = pd.read_csv('./train.csv')
                                                                                                  1460,000000
                                                                                       count
                                                                                       mean
                                                                                                180921.195890
#Display the scatter plot of GarageArea and SalePrice
                                                                                                79442.502883
                                                                                       std
plt.scatter(train.GarageArea, train.SalePrice, color='red')
                                                                                       min
                                                                                                 34900.000000
plt.xlabel('GarageArea')
                                                                                       25%
                                                                                                129975.000000
plt.ylabel('SalePrice')
                                                                                   ÷
                                                                                       50%
                                                                                                163000.000000
plt.show()
                                                                                                214000.000000
                                                                                                755000.000000
                                                                                       max
#Delete the outlier value of GarageArea
                                                                                       Name: SalePrice, dtype: float64
outlier_drop = train[(train.GarageArea <1000) & (train.GarageArea >200)]
                                                                                       Process finished with exit code 0
##Display the scatter plot of GarageArea and SalePrice after filtering
plt.scatter(outlier_drop.GarageArea, outlier_drop.SalePrice, color='blue')
plt.xlabel('GarageArea')
plt.ylabel('SalePrice')
plt.show()
print(train.SalePrice.describe())
```





2. Create Multiple Regression for the "wine quality" dataset. In this data set "quality" is the target label. Evaluate the model using RMSE and R2 score.

https://umkc.box.com/s/4hb8p4de88gg1osc10jdex2qscm2l4af

- **You need to delete the null values in the data set
- **You need to find the top 3 most correlated features to the target label(quality)

