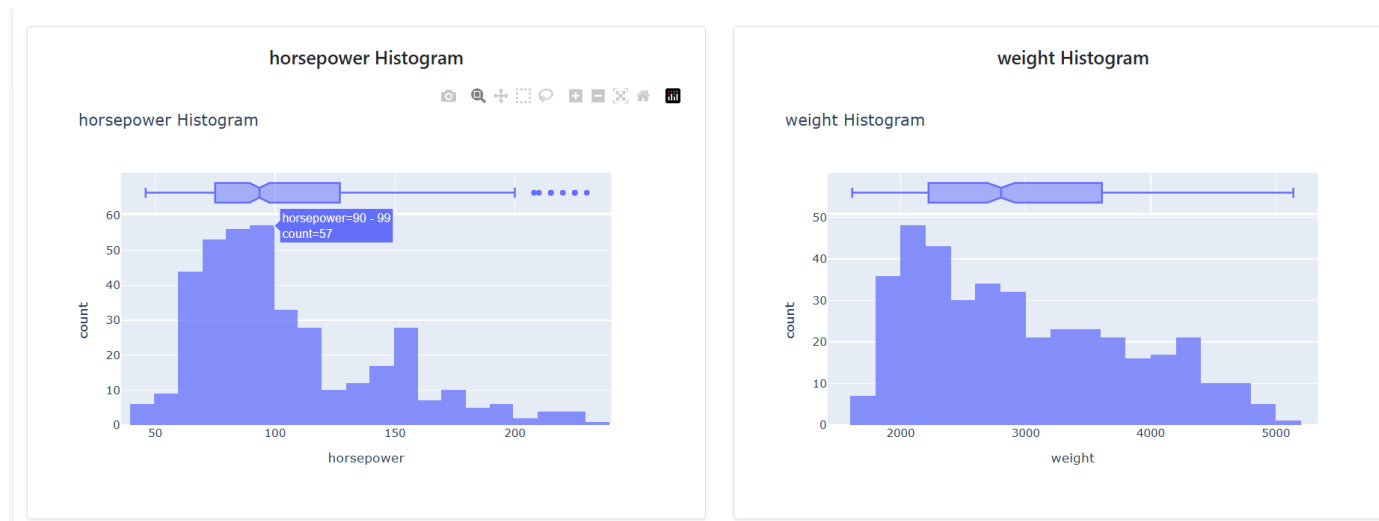


Data Visualization and Presentation

By: Nishchal Sharma

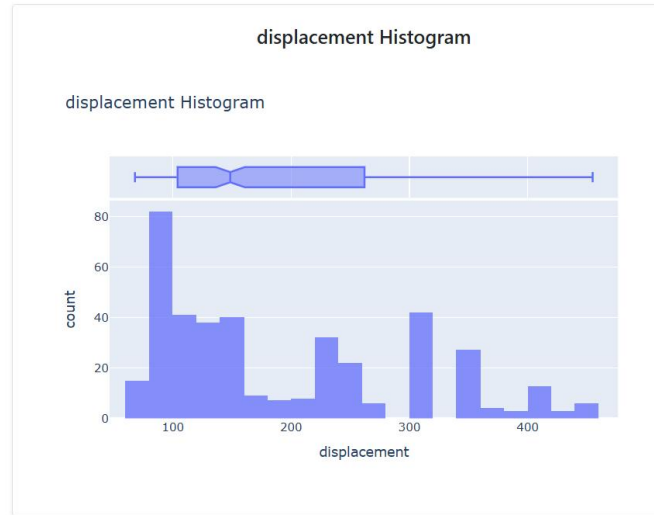
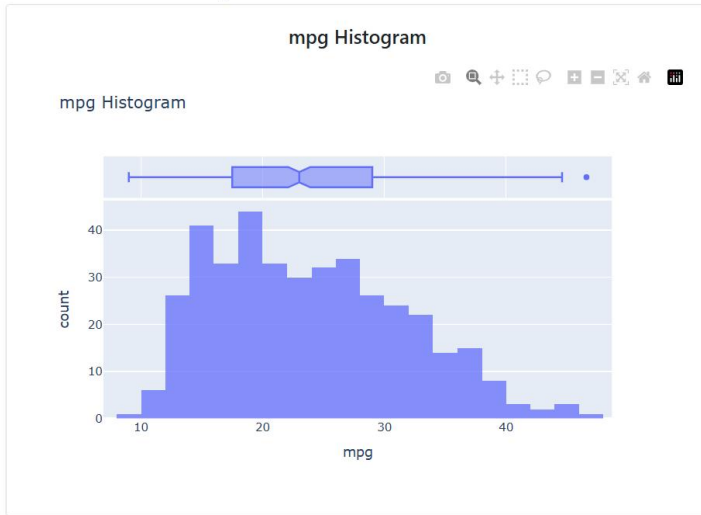
Github Repo: <https://github.com/nishchalacharya/mpg-Data-Visualization-and-Presentation>

SCREENSHOTS IN DASH



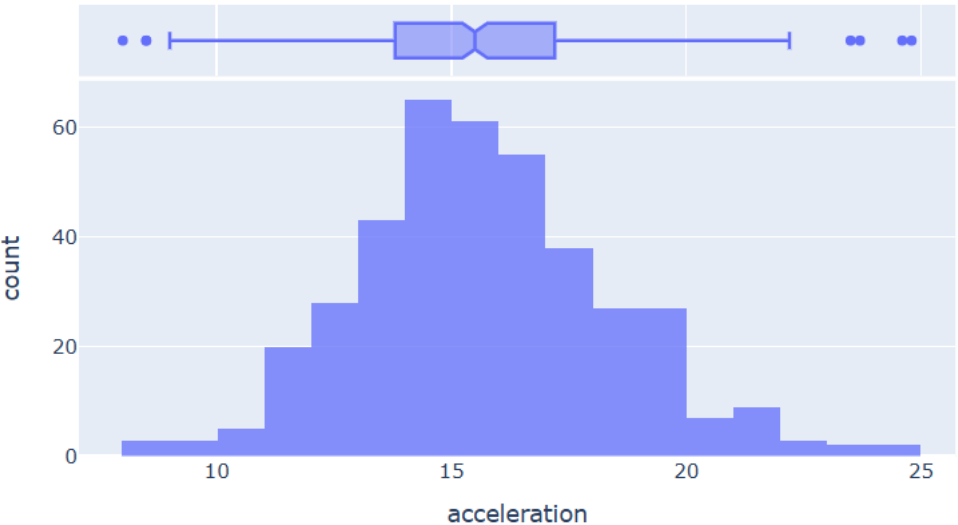
MPG Dataset Dashboard

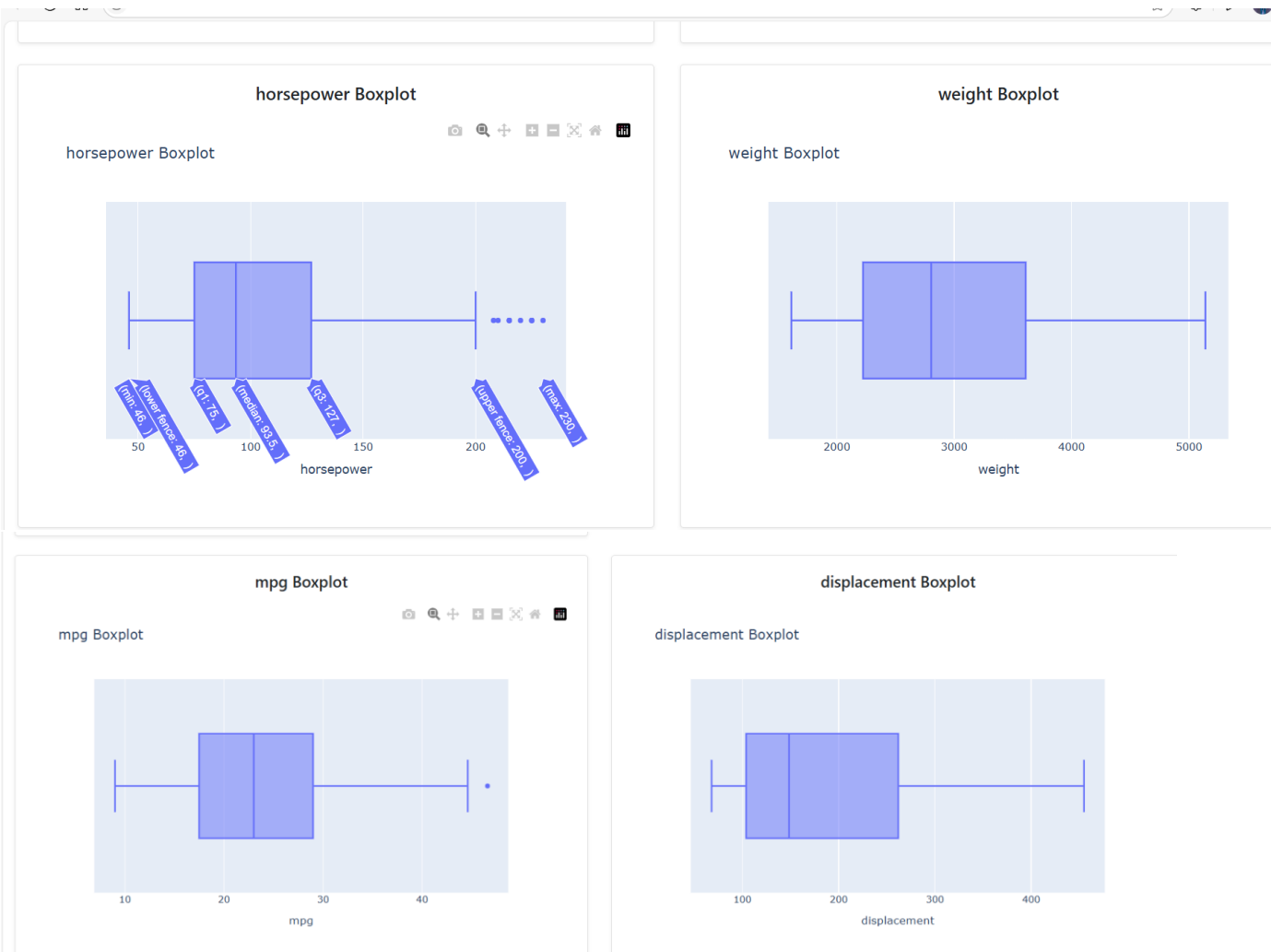
Univariate Analysis



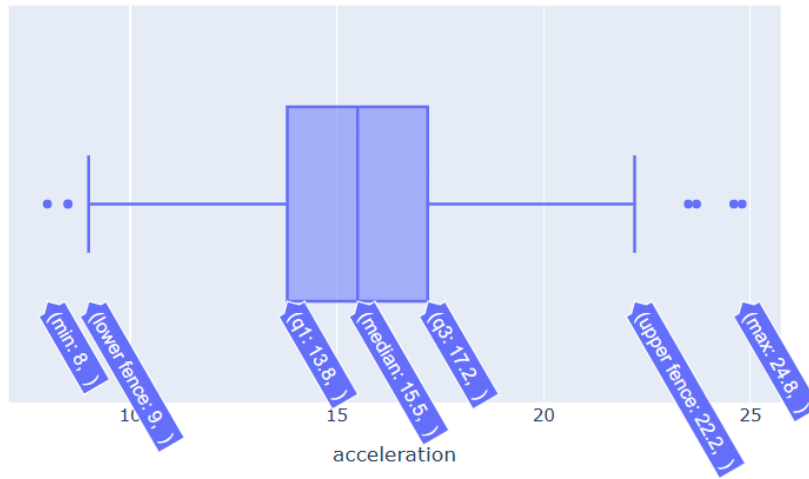
acceleration Histogram

acceleration Histogram





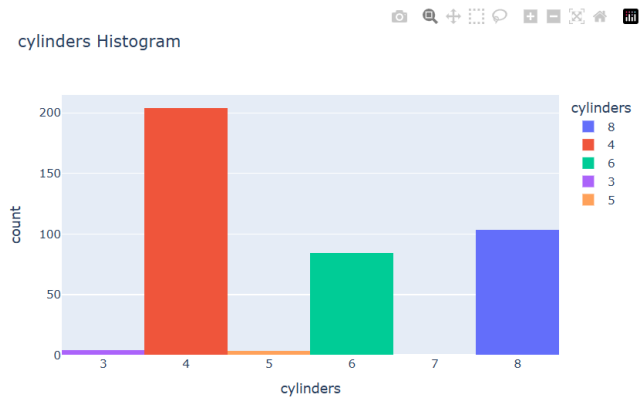
acceleration Boxplot



Categorical Analysis

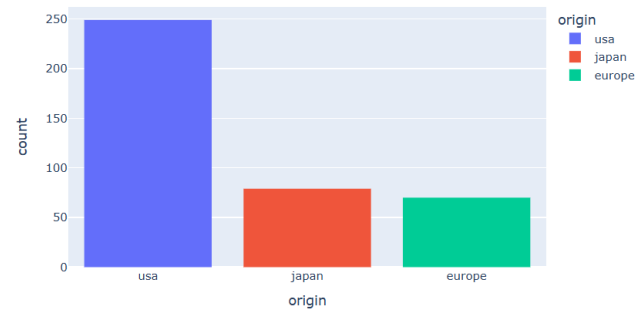
cylinders Histogram

cylinders Histogram



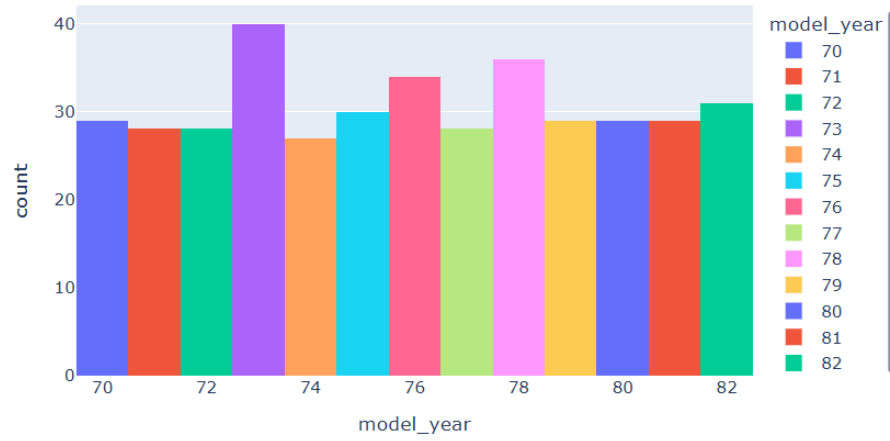
origin Histogram

origin Histogram



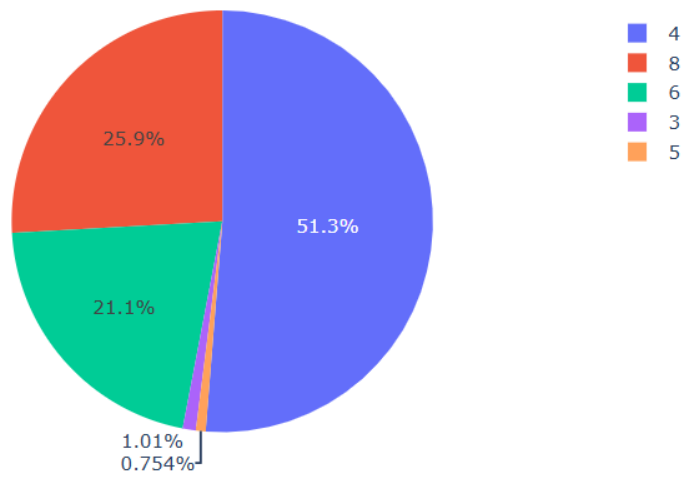
model_year Histogram

model_year Histogram



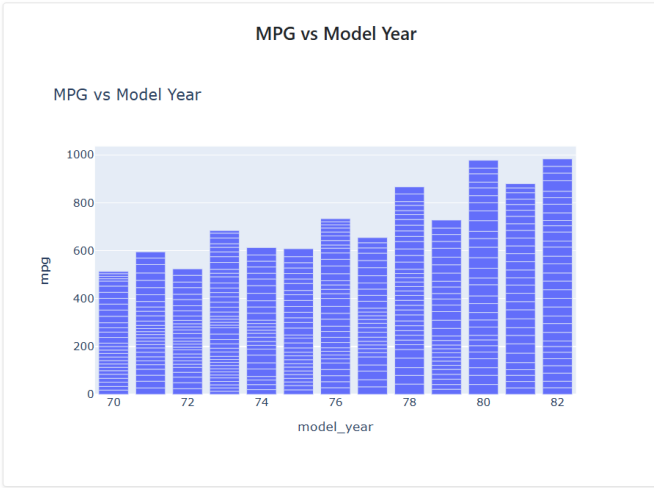
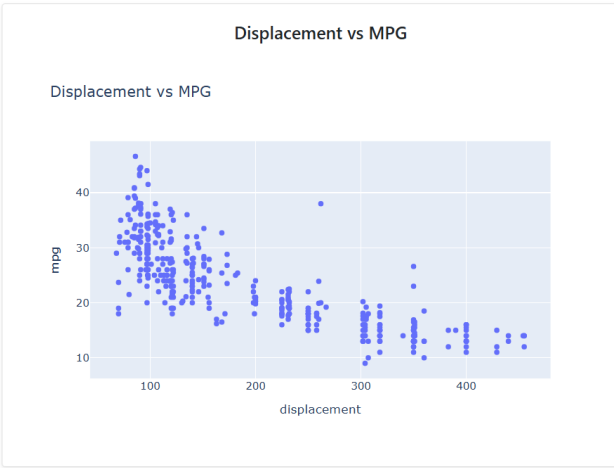
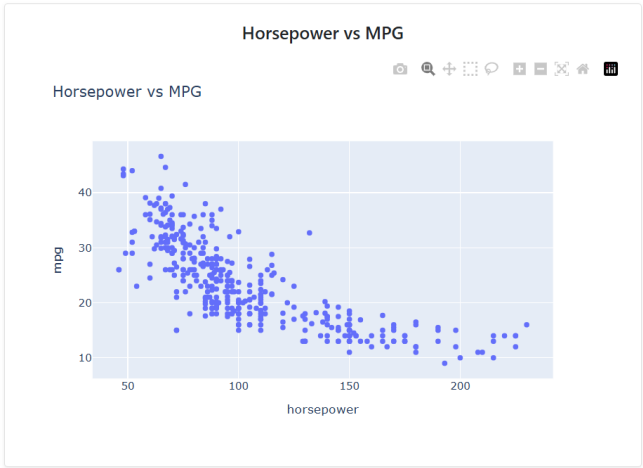
Cylinders Pie Chart

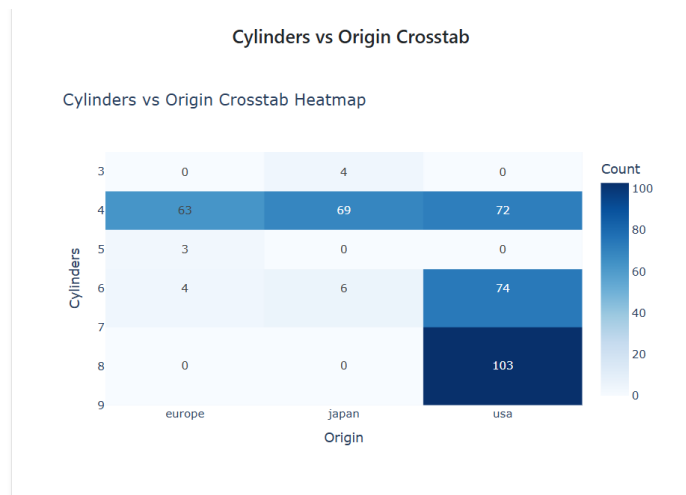
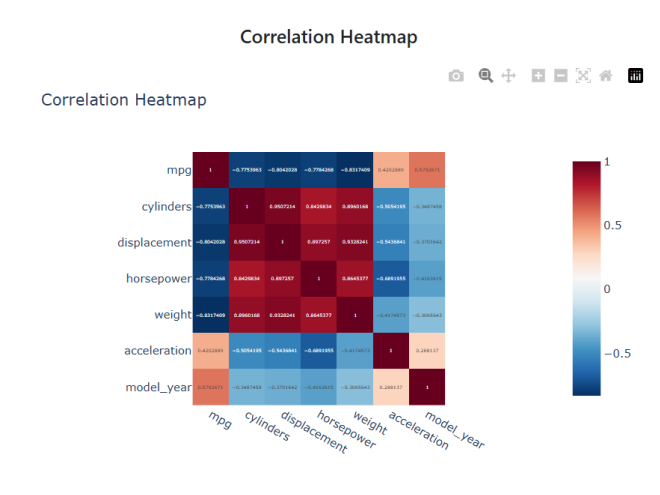
Cylinders Pie Chart



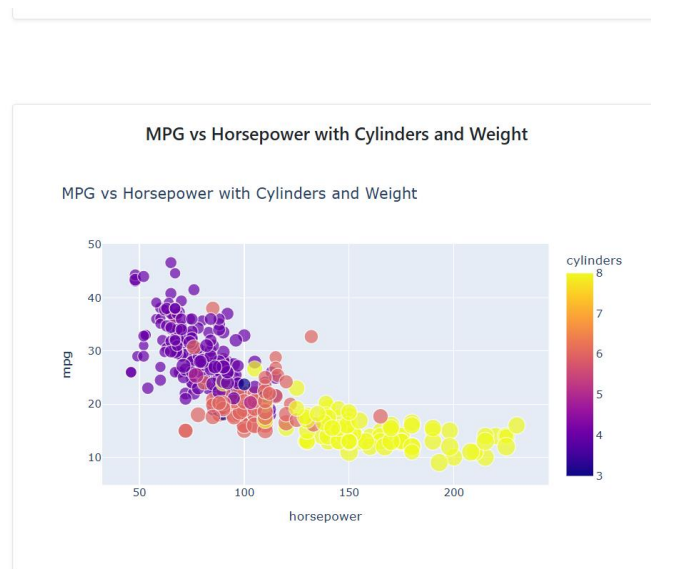
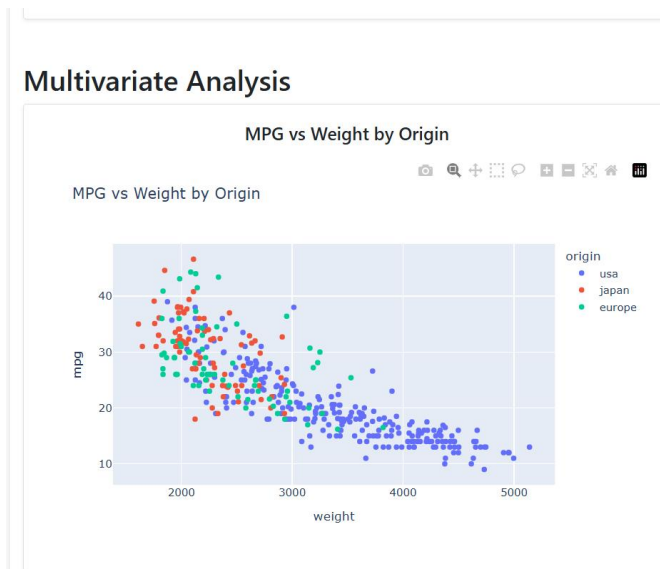
BIVARIATE ANALYSIS:

Bivariate Analysis





SOME SCREENSHOTS OF MULTIVARIATE ANALYSIS:



FINALLY: SOME INSIGHTS ARE SHOWN, MOST OF THEM ARE WRITTEN IN NOTEBOOK ATTACHED.

Insights

- MPG is negatively correlated with weight and horsepower.
- Japanese cars tend to have higher MPG on average.
- mpg and weight(-0.83)-this shows ,higher weight car always tend to have low mpg
- cylinders and displacement (0.95) ,higher engine displacement tend to have high no of cylinders
- cylinders and mpg(-0.78) ,shows that high no of cylinders in engine tends to strongly decrease mpg
- horsepower and displacement (0.9) ,this tends high displacement engines have high horse powers.
- mpg and acceleration (0.42) -shows postive corelation high acceleration cars tends to have high mpg
- mpg and model year(0.58) -postive corelation
- the cars with high weight tends to have high horsepower, low mpeg and high cylinders
- cars with more cylinders tends to cluster towars horsepower and lower mpg
- cars with low horsepower tends to have low cylinders and high mpg
- USA origin cars have high weight with low mpg and high number of cylinders
- Generally Japan and Europe cars tend to have low weight with high mpg with 4 cylindr