MSDS 6372 Applied Statistics

Project - 1

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# Introduction

# Data Description

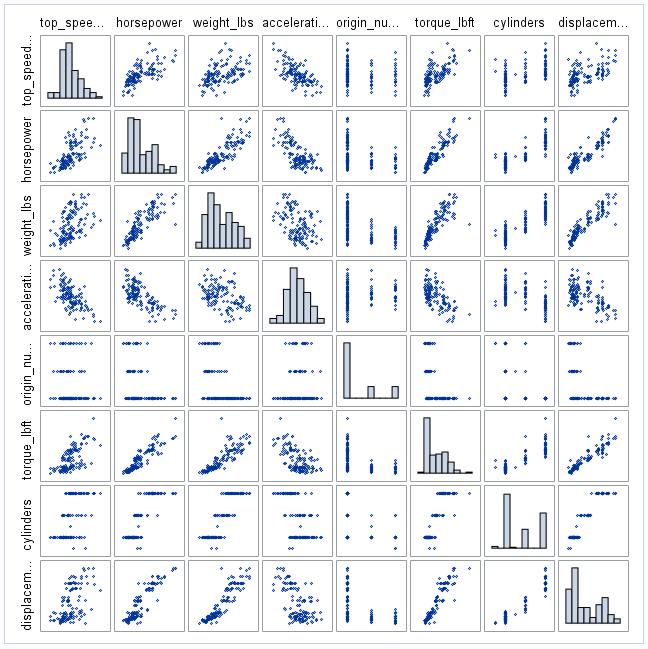
|  |  |  |
| --- | --- | --- |
| Attribute Name | Attribute Type | Description |
| mpg |  |  |
| cylinders |  |  |
| displacement |  |  |
| horsepower |  |  |
| weight |  |  |
| acceleration |  |  |
| model\_year |  |  |
| origin |  |  |
| car\_name |  |  |
| torgue\_lbft |  |  |
| top\_speed\_mph |  |  |
| 0\_60\_time\_sec\_predicted |  |  |
| quarter\_mile\_time |  |  |
| car\_full\_name |  |  |

# Exploratory Analysis

## Data Analysis

* Removed observations with horsepower values as NA (In Excel – as SAS was reading them as character datatype)

## Scatter Plot



# Objective 1

## Problem Statement

## Model Selection

### Selection Type

### Assumptions

### Model Comparison

## Parameter Interpretation

## Conclusion

# Objective 2

## Problem Statement

## Solution Approach

## Main Analysis

## Conclusion

# Resources

<https://archive.ics.uci.edu/ml/datasets/Auto+MPG>

# Appendix

## SAS Code

### Objective 1

### Objective 2