Regression Model - Course Project

Jordan Woloschuk

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Motor Trend: Analysis on Variables and the Impact on Miles per Gallon

1) Executive Summary

The purpose of this analysis is to examine a collection of cars and determine the relationship between vechicle variables (e.g. number of cyclinders) and fuel economy (i.e. miles per gallon).

This analysis will seek to answer the following questions:

1. Is an automatic or manual transmission better for MPG?
2. Quantify the MPG difference between automatic and manual transmissions?

2) Data Processing

2.1) Loading Libraries

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Load necessary libraries for data analysis and developing results.

```
library(ggplot2)
library(dplyr)
# GGally for ...........
library(GGally)
# ggfortify
library(ggfortify)
```

2.2) Loading Data

Load necessary mtcars dataset.

```
data(mtcars)
```