Motor Trend - Effects of transmission on MPG

Pedro Magalhães Bernardo June 5, 2016

Executive Summary

This report is part of a course project within the **Regression Models** course on the **Data Science Specialization** by **Johns Hopkins University** on **Coursera**. On this report we will analyze the **mtcars** data set and explore the relationship between the type of transmission (manual or automatic), among other variables, and miles per gallon (MPG), which will be our outcome.

We are particularly interested in the following two questions:

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