

MILES per GALLON PREDICTION

Ahmed Talaat Hanafy

June 19, 2018

Overview:

*This is an RStudio shiny application developed as a part of final project in the Developing Data Products course in Coursera Data Science Specialization track. Application is **MILES per GALLON PREDICTOR**

Application includes:

- A number of sliders to select different variables.
- A radioButton to select the Transmission type.
- 2 Tabs to show the app & documentation.

Widgets:

This app uses **5 widgets** listed below:

- `textInput`: a field to enter your car's model, it takes any text values.
- 2 `sliderInputs`:

slider #1: to enter the horsepower of your car. slider #2: to enter the weight of your car (per 1000 lbs)
- `radioButton`: to select your car's transmission type (Automatic / Manual)
- `actionButton`: a submit button, to provide a slow reactive activity for model.

Calculations:

The reactivity of the shiny application widgets is controlled by using an Action Button. Based on user inputs, and using `lm()` function, the application displays:

- Car's Model
- Predicted value of MPG using the Linear Model
- Predicted value of MPG using the Non-Linear Model
- Plot shows how are the 2 models on a visualizing scale

To make it easy for a novice user, a Documentation tab in the Main Panel of the application lists the details of the calculation of simple interest.

Links

- find the application at [link](#)
- find all project files at **Github** repo [link](#)

by: Ahmed Talaat Hanafy

THANKS