

# Slidify Presentation

## Coursera Data Product Course Project Part 2

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## Introduction

This is a reproducible pitch presentation using slidify. This part uses mtcars dataset from one of the available datasets in R. Few next slides shows the structure of the variables and sample data.

## Structure of the dataset

```
library(datasets)
str(mtcars)
```

```
## 'data.frame':   32 obs. of  11 variables:
##  $ mpg : num  21 21 22.8 21.4 18.7 18.1 14.3 24.4 22.8 19.2 ...
##  $ cyl : num   6  6  4  6  8  6  8  4  4  6 ...
##  $ disp: num  160 160 108 258 360 ...
##  $ hp  : num  110 110 93 110 175 105 245 62 95 123 ...
##  $ drat: num   3.9 3.9 3.85 3.08 3.15 2.76 3.21 3.69 3.92 3.92 ...
##  $ wt  : num   2.62 2.88 2.32 3.21 3.44 ...
##  $ qsec: num   16.5 17 18.6 19.4 17 ...
##  $ vs  : num   0  0  1  1  0  1  0  1  1  1 ...
##  $ am  : num   1  1  1  0  0  0  0  0  0  0 ...
##  $ gear: num   4  4  4  3  3  3  3  4  4  4 ...
##  $ carb: num   4  4  1  1  2  1  4  2  2  4 ...
```

## Sample Data

```
head(mtcars)
```

| ## |                   | mpg  | cyl | disp | hp  | drat | wt    | qsec  | vs | am | gear | carb |
|----|-------------------|------|-----|------|-----|------|-------|-------|----|----|------|------|
| ## | Mazda RX4         | 21.0 | 6   | 160  | 110 | 3.90 | 2.620 | 16.46 | 0  | 1  | 4    | 4    |
| ## | Mazda RX4 Wag     | 21.0 | 6   | 160  | 110 | 3.90 | 2.875 | 17.02 | 0  | 1  | 4    | 4    |
| ## | Datsun 710        | 22.8 | 4   | 108  | 93  | 3.85 | 2.320 | 18.61 | 1  | 1  | 4    | 1    |
| ## | Hornet 4 Drive    | 21.4 | 6   | 258  | 110 | 3.08 | 3.215 | 19.44 | 1  | 0  | 3    | 1    |
| ## | Hornet Sportabout | 18.7 | 8   | 360  | 175 | 3.15 | 3.440 | 17.02 | 0  | 0  | 3    | 2    |
| ## | Valiant           | 18.1 | 6   | 225  | 105 | 2.76 | 3.460 | 20.22 | 1  | 0  | 3    | 1    |

The source codes for ui.R and server.R files are available on [github](#).

## The Application

The (mtcars) database is used for the application. The link to the application is [https://gopalbhatta.shinyapps.io/data\\_mtcars/](https://gopalbhatta.shinyapps.io/data_mtcars/)

The app allows to perform interactive data analysis from a set of user specified criteria-  
The selling price of gasoline (US \$/gallon) and desired travel distance.