

# Course Project: Shiny Application and Reproducible Pitch

Pedro Rojas G

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# About the Course Project

This is a deliverable for the course Developing Data Products as part of the Coursera Data Science Specialization.

Instructions:

1. Write a shiny application with associated supporting documentation. The documentation should be thought of as whatever a user will need to get started using your application.
2. Deploy the application on Rstudio's shiny server
3. Share the application link by pasting it into the provided text box
4. Share your server.R and ui.R code on github

# How to use the application

Using the data provided by Galton Families dataset, we fit a linear model to predict a child's height based on the gender and parent's average height.

The application is running on

([https://r2po.shinyapps.io/course\\_project\\_shiny\\_appreproducible\\_pitch/](https://r2po.shinyapps.io/course_project_shiny_appreproducible_pitch/))

ui.R, and Server.R Code in my github repository

(<https://github.com/XavierFontane/Course-Project-Shiny-Application-and-Reproducible-Pitch>)

# Galton Families Dataset

The data used in the app comes from the GaltonFamilies dataset.

```
##      family      father      mother  midparentHeight

## 185      : 15  Min.      :62.0    Min.      :58.00    Min.      :64.40

## 066      : 11  1st Qu.:68.0    1st Qu.:63.00    1st Qu.:68.14

## 120      : 11  Median :69.0    Median :64.00    Median :69.25

## 130      : 11  Mean    :69.2    Mean    :64.09    Mean     :69.21

## 166      : 11  3rd Qu.:71.0    3rd Qu.:65.88    3rd Qu.:70.14

## 097      : 10  Max.     :78.5    Max.     :70.50    Max.     :75.43

## (Other):865

##      children      childNum      gender      childHeight

## Min.      : 1.000    Min.      : 1.000    female:453    Min.      :56.00

## 1st Qu.: 4.000    1st Qu.: 2.000    male  :481    1st Qu.:64.00

## Median : 6.000    Median : 3.000                                Median :66.50

## Mean     : 6.171    Mean     : 3.586                                Mean     :66.75
```

# Plot

In the scatterplot below are represented the data used for the prediction model

