My Shiny App Pitch

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INTRODUCING MY SHINY APP

Who is the app designed for?

- Students getting used to Shiny app development
- Noobies who are learning R
- JHU data science specialization lecturers

INTERNALS OF THE APP

The app will load the mtcars dataset that comes installed in base R. It will then conduct an exploration analyis on this dataset to study the correlation between its various variables. Specifically, it will try to highlight the relationship between a car's mileage and other variables such as engine size (displacement) or engine power (Horse power).

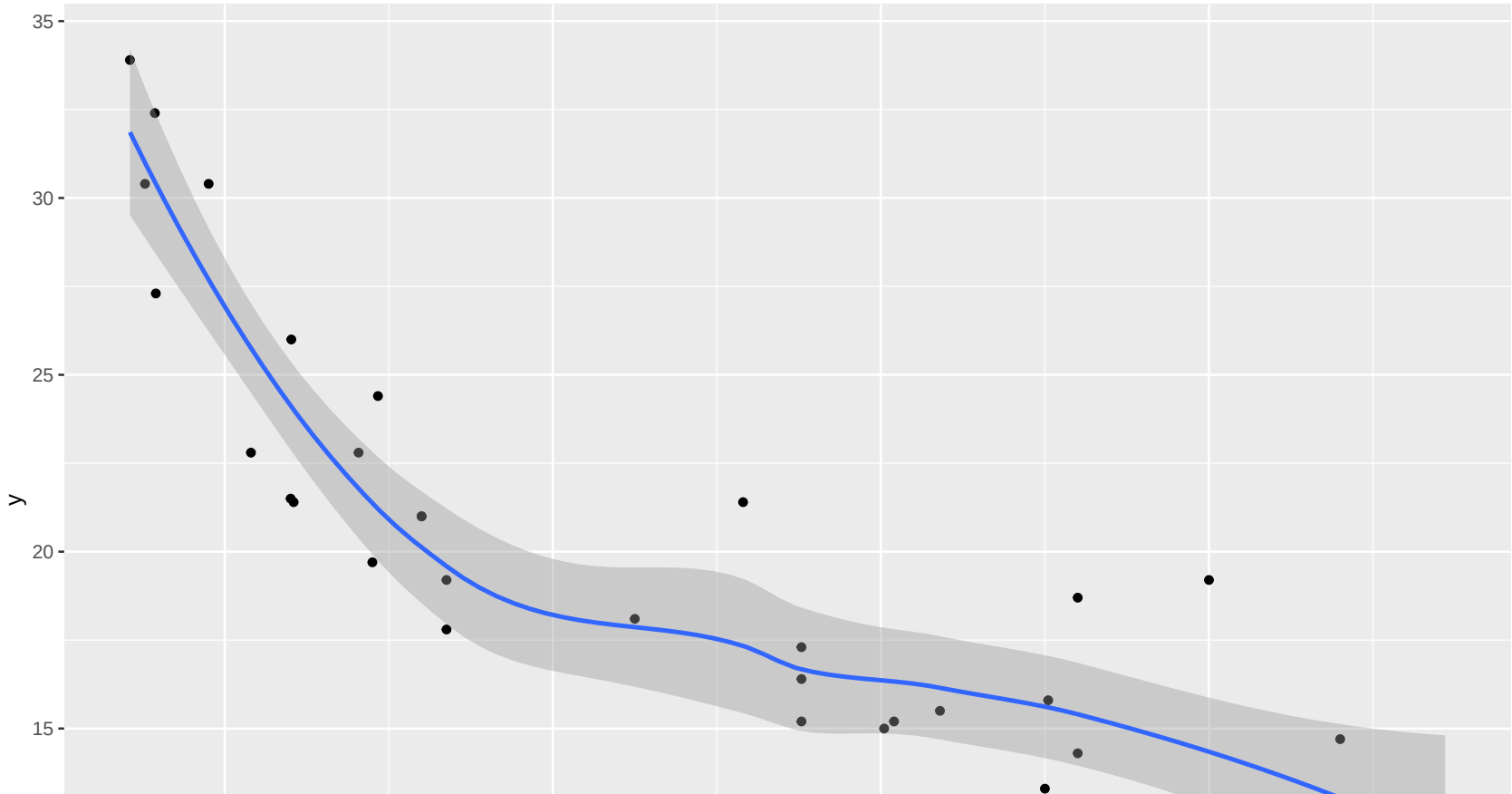
```
data("mtcars")
head(mtcars)
```

```
FALSE                   mpg cyl disp  hp drat    wt  qsec
FALSE Mazda RX4          21.0   6  160 110 3.90 2.620 16.46
FALSE Mazda RX4 Wag      21.0   6  160 110 3.90 2.875 17.02
FALSE Datsun 710         22.8   4  108  93 3.85 2.320 18.61
FALSE Hornet 4 Drive     21.4   6  258 110 3.08 3.215 19.44
FALSE Hornet Sportabout 18.7   8  360 175 3.15 3.440 17.02
FALSE Valiant            18.1   6  225 105 2.76 3.460 20.22
```

APP MECHANICS

The app has two panels. In the left-side panel, the user is give asked to choose which variable to regress to the car's mileage. Upon choosing, say **Displacement,** the right-side panel will then present a scatter plot that shows the relationship between the displacement (X axis) and mileage (Y axis).

APP DEMO (Chart 1)



APP DEMO (Chart 2)

```
# Plot with engine power (Horse power)
z <- mtcars$hp
g <- ggplot(mtcars, aes(x = z, y = y))
g <- g + geom_point() + geom_smooth()
g
```