Shiny App Assignment

July 20, 2021

Shiny App Assignment for JHU

This is a submission for the **JHU Coursera** - **Developing Data Products** course. I have used the Iris data and visualized it with 2 input options –1) Sepal or Petal, and 2) Species. Per the official tutorial, I found that the latest version supports single-file app. Although the lessons were taught using 2 separate files, I tried developing the app with single file. The code does not fit in the slide. Please refer to the app file itself uploaded to the same repository for the details.

The app is hostes on Shiny.io:
https://gitttykatt.shinyapps.io/jhu_shiny/

The tutorial from R Studio can be found on their website:
https://shiny.rstudio.com/tutorial/written-tutorial/lesson1/

app.R code - ui part

```r
# Define UI for app that draws a visualization of Iris dat
ui <- fluidPage(

  # App title ----
  titlePanel("Iris dataset visualization"),

  p("For JHU Coursera Assignment, July 20, 2021"),
  br(),

  # Sidebar layout with input and output definitions ----
  sidebarLayout(

    # Sidebar panel for inputs ----
    sidebarPanel(

      # Input: Choices ----

      radioButtons(inputId = "sepalorpetal",
```

app.R code - server part

```r
# Define server logic required to draw a plot ----
server <- function(input, output) {

  output$plot <- renderPlot({

    data <- iris

    if (input$sepalorpetal == "sepal") {
      data <- data %>% select(x = Sepal.Width, y = Sepal.Le
    }
    else if (input$sepalorpetal == "petal") {
      data <- data %>% select(x = Petal.Width, y = Petal.Le
    }

    validate(
      need(input$species != "", "Please select at least 1 S
    )
```

app.R Output

Figure 1: Screenshot of the app.R Output