

Homework 05

DSO 545: Statistical Computing and Data Visualization

Fall 2018

Instructions

Problem 1:

(7 points) In this assignment you will explore the dataset `recent_grads.csv`, create cool/informative visualization(s), and use the Shiny framework to display your work in a web context. The assignment requirements are outlined below, but you have the freedom to exercise your curiosity and creativity in exploring this dataset. At the end of it all, you'll have a functioning demo to show your friends and family!

On September 12, 2014 there was a `fivethirtyeight.com` article on “The Economic Guide To Picking A College Major”. You can read more about it here: <https://fivethirtyeight.com/features/the-economic-guide-to-picking-a-college-major/>

This article used the `recent_grads.csv` dataset (in addition to few more datasets) to come up with different insights. Your job is mainly to use the `recent_grads.csv` to create a shiny app keeping in mind the following:

- Your application **MUST** contain at least one reactive visualization. A reactive visualization is defined by a corresponding UI input that allows the user to dynamically change the visualization based on their input. The UI input may be a slider bar, a check box, text box, or any other Shiny UI input element or widgets. All shiny widgets could be found here: <https://shiny.rstudio.com/gallery/widget-gallery.html>
- You **MUST** give context (a sentence or two) to your data visualization using the title & description fields. This is so other people can understand what your beautiful visualizations are telling them!

Problem 2

(3 points) Read Chapter 4 from “Storytelling with data: A Data Visualization Guide for Business Professionals”, and write a **max of 1 page summary** of the key points in the chapter. Please note, that this book is available online on USC’s library webpage.