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EN 605.662 Data Visualization

Final Project Proposal

I. Possible Topic

For the final project of Data Visualization course, I would like to utilize some COVID-19 related datasets, to demonstrate the concepts and skills learned throughout the semester. There are some publicly available datasets, which have sufficient amounts of data, and contain many types of features/variables such as datetimes, geolocations, etc. So I think these datasets would be good resources to apply data manipulations and visualization operations, to tell and persuade readers some insights or ideas from data.

Also, even though I am not a medical personnel, I believe working with COVID-19 data for the project would be a great and timely opportunity to know more about other medical & statistical professionals' studies and researches.

II. Project Plan

As the first step of the project, through research I will look for some data visualization dashboard or application which is actually being used by the public. And with the reference of some theories from textbooks and online resources, I will analyze the areas that data visualization did well, or the areas that could be developed in a better way.

Then I will deep dive into some public datasets, asking some questions on data, and looking for good visualization approaches to answer the questions. So this part is to plan and design my own data visualization solution, and followed by actual development.

III. Detailed Timeline (Draft)

Mar. 16: Final Project Proposal

Mar. 30: Revised Project Proposal Due

Mar. 30 ~ Apr. 13:

Research public and analyze dashboards and visualization solutions

Browse available datasets and pick one (or many) of them to build data
visualization

Apr. 13: Bibliography Due

Apr. 13 ~ Apr. 27:

Design and build the dashboard or visuals with the picked datasets.

Write Final Paper and document the codes

Apr. 27: Final Project Due