

COMCS230 Final Project

Presentations Due Dec/4 & 9/2024

Reports Due Friday Dec/13/2024

Final Presentation Details

1. For your final report (Due December 13th on Bridges), you will prepare a 10 minutes presentation talking about an interesting data analysis that you did in Python and the software configuration management of your project on GitHub. You may work in groups of two (or three). The presentations will be done during the class time on December 4-9th.

1. You should select a dataset for your analysis that is of interest to you.
2. Formulate a research hypothesis you want to answer with this dataset.
3. Describe the variables in the dataset that relate to your hypothesis.
4. Formulate a statistical hypothesis based on the available data.
5. Conduct a descriptive statistical analysis for relevant variables in the dataset using graphical figures.
6. Conduct a statistical analysis (linear model or a similar statistical tool) to answer your research question. Prepare a suitable output and interpret the results. How do the results of the analysis relate to your research question? The presentation should summarize your analyses (texts, tables and figures). Structure the presentation as follows:
 - (a) Introduction (Introduce the problem, research questions and background information),
 - (b) Model and data analyses (describe the data set and report some data summaries like the number of observations, variables, and a frequency table of basic demographic variables, statistical hypothesis, and model description, basic summaries of your analyses),
 - (c) Project GitHub account details, and configuration management structure.

- (d) Conclusions and summary of the work. In addition, prepare a final report (less than 8 pages) that summarizes the analyses you will be presenting. The final report is due on December 13th and can include modifications based on comments from the final presentation. Upload the final report on Bridges.

NOTE: Remember to include the headings, page numbers, titles and follow name/last-name in the presentation slides.