CS Rubric – Case Study

DS 4002 – Spring 2024 - Olivia Byram
Due: TBD
Submission format:

- **Upload link to github repo to canvas AND**
- **PDF of Research Paper**

Individual Assignment

General Description: Submit to canvas a link to your case study repository and a pdf of your research paper

Preparatory Assignments – Everything in the course

Why am I doing this? This assignment is designed to guide you through a basic analysis and produce a deliverable that you can present to your peers. It will help you to become stronger in a basic data science analysis, and guide future research.

- Course Learning Objective: prepare findings for presentation to your peers.

What am I going to do? Since you have likely not performed a case study yet, this will be a basic introduction into doing one. You will download the data, use the pre-written code to perform the analysis, then put your output into a GitHub repository. You will then write a short research paper describing the analysis that you performed and how it can be applied to future analysis projects.

- GitHub Repository - this will have your output to prove that you performed the analysis and got the correct results
- Research Paper (pdf) - this will describe the analysis performed, specifics about the code you ran, and future work

All of this will be submitted electronically via a link to a github repository, as well as a pdf of the research paper.

How will I know I have Succeeded? You will meet expectations on CS - Case Study when you follow the criteria in the rubric below.

Formatting	● GitHub Repository ○ This will be forked from the original GitHub repository given to you

	○ Include a folder with the output you receive after running your code ○ Submit a link to your forked GitHub repository in Canvas ● Research Paper ○ Maximum 2 pages ○ Submit PDF electronically on Canvas
GitHub Repository	● Goal: Show that you replicated the case study and produced the correct output ● Fork the GitHub repository given to you o Download the data and code provided in the repository o Run the code in R Studio o Create an 'output' folder in the forked GitHub repository and include the output you received after running the code
Research Paper	● Goal: Demonstrate understanding of the analysis performed and show potential for future projects ● Include name, date, course name, and title ● Discuss the motivation for the analysis and background details (data, topic, research question, etc.) - One Paragraph ● Discuss the analysis performed (what did the code do, what were the results) - one paragraph ● Discuss how you will perform a similar analysis in the future - one paragraph ● Maximum 2 pages, pdf
References	● Goal: Include credit to any references used ● Ensure that you include any references on both the forked GitHub repository and the research paper

Acknowledgements: Special thanks to Jess Taggart from UVA CTE for coaching on making this rubric. This structure is pulled from Streifer & Palmer (2020).