

# CS – Book Reviews Case Study

DS 4002 – Spring 2023 - Professor Alonzi

Due: May 3

Submission format: Upload link to github repo to canvas and hard copy turned in to Elson 185A

## Individual Assignment

**General Description:** Submit to canvas a link to your case study repository.

Preparatory Assignments – Read the hook and the material before working with the data.

**Why am I doing this?** It is important to read and synthesize information to generate potential ideas. Case studies allow the opportunity for individuals to do as such. Additionally, this work will push individuals to create detailed and thorough documentation when analyzing and presenting the findings of this work too. Finally, case studies allow people to begin to explore solutions from the bottom top approach similar to data science.

- Course Learning Objective: synthesize relevant ideas in a domain and create a testable hypothesis
- Course Learning Objective: translate processes from theory in the scientific method into functioning data science pipelines
- Course Learning Objective: prepare findings for presentation to your peers

**What am I going to do?** First you will read the hook document. Once you review that hook document you will read the materials in the material folder. After that you will look at the data table and walkthrough. Finally, you will produce a set of slides for the presentation. The presentation need not be long, we are aiming for 10 minutes, which means about ten slides. It does need to cover all the essential pieces, from motivation and context, to describing your data, through analysis, and on to the next steps.

### Tips for success:

- Read, read, and read! Take the time to explore the topic at hand.
- Talk to the professor and the TA if you have questions.
- Focus, focus, focus – Put the iPhone down and turn off notifications.
- Don't overthink it!

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

Spec Category	Spec Details
Formatting	<ul style="list-style-type: none"> <li>• One Github Repository (submitted via link on collab)</li> <li>• The top level page should contain <ul style="list-style-type: none"> <li>○ A README.md file (which auto displays)</li> <li>○ A LICENSE.md file (use MIT as default) <ul style="list-style-type: none"> <li>▪ This file explains to a visitor the terms under which they may use and cite your repository.</li> <li>▪ Select an appropriate license from the GitHub options list on repository creation.</li> </ul> </li> <li>○ A SRC folder <ul style="list-style-type: none"> <li>▪ Include all code files you produce</li> </ul> </li> <li>○ A DATA folder <ul style="list-style-type: none"> <li>▪ Link to data</li> <li>▪ Relevant notes about use of data</li> </ul> </li> <li>○ A FIGURES folder <ul style="list-style-type: none"> <li>▪ Table of contents describing all figures produced and summarizing their takeaways</li> </ul> </li> </ul> </li> </ul>
PowerPoint slide	<ul style="list-style-type: none"> <li>• About 10 slides</li> <li>• PDF format for submission to canvas</li> <li>• Generate the slides through the program of your choice</li> <li>• Slide numbers (except for title slide)</li> <li>• Order <ul style="list-style-type: none"> <li>○ Title &amp; Outline</li> <li>○ Motivation/Context/Hypothesis/Research Question/Modeling Approach</li> <li>○ Data Explanation/Acquisition</li> <li>○ Analysis Plan and Justification</li> <li>○ Tricky Analysis Decision</li> <li>○ Bias and Uncertainty Validation</li> <li>○ Results/Conclusions</li> <li>○ Next Steps</li> <li>○ References/Resources/Acknowledgements</li> <li>○ Closing Slide</li> </ul> </li> <li>○ General note: Each section can take as many slides as it needs to unless specifically indicated as 1 slide.</li> </ul>
References	<ul style="list-style-type: none"> <li>• All references should be listed at the end of the document</li> <li>• Use IEEE Documentation style (<a href="#">link</a>)</li> </ul>

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