

CS3 Rubric – Case Study Create

DS 4002 – Spring 2024 - Instructors: Javier Rasero and Harsh Anand

Due: May 03, for comments; May 10 (*hard copy does not need to be final version if revision is required)

Submission format:

- Upload link to github repo to canvas AND
- Hard copy turned into Elson Building, Prof. Rasero's office (room 198). If that office isn't open, you may try to slide it under the door, leave it at the door, or ask Shelley Moss, who is at the reception desk and has a key to the office. Alternatively to this, you may place the hard copy under the DS 4002 basket (if, for example, you are returning a CS2 from a previous term). In the case you experience extenuating circumstances and the only available option is mail, feel free to mail it to Prof. Rasero at the Data Science office. (400 Brandon Ave). In this last case, be aware of the deadline. It should have arrived by that date.

Individual Assignment

General Description: Submit to canvas a link to your case study repository and a hard copy to Professor Javier Rasero's office (400 Brandon Ave – Elson Building School of Data Science Faculty Offices room 198).

Preparatory Assignments – Everything in the course, but especially CS2.

Why am I doing this? This is your opportunity to synthesize the lessons learned during this course and prepare one of your projects for delivery through a different mechanism than the in-class presentation, namely a case study. It is also your chance to contribute to those coming after you. The deliverable you will create is a case study targeted at a 2nd year UVA student. The reframing of your work with a new target audience gives you the chance to practice reaching a broader audience.

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

What am I going to do? In assignment CS2 you reviewed case studies created by your fellow students. Now in CS3 you have the opportunity to create a case study based on the work of ONE OF YOUR PROJECTS. (N.B.: your rubric for assessment, this document, is not the same that they received for theirs, pay close attention to this one). First you will select one of ONE OF YOUR PROJECTS from this semester and think of a way to share that experience with future students. You will develop a case study targeting a 2nd year student. Then you will produce several items to hook the student as well to guide them through the process. Deliverables include:

- One page hook document - to get the students interested and engaged, and frame the deliverable they will produce
- Rubric - to guide the work done by the target student.

- Github repository and data set – to provide resources like code and data
- List of references - including a few key pieces to get someone started

All of this will be submitted electronically via a link to a github repository build for the case study AND selected documents will be submitted by hard copy as well.

Tips for success:

- Be bold. This is your chance to pick something you learned and share it.
- Don't overthink it. You are creating something for 2nd years, not Nobel prize winners.
- Don't overthink it. A clear presentation of fundamentals is more valuable than an unclear presentation of cutting edge techniques.
- Talk to the instructors. This is a creative assignment, and you are allowed to show ideas to people for comment.
- Talk to your fellow students. This is a creative assignment and you are allowed to show ideas to people for comment.

How will I know I have Succeeded? You will meet expectations on CS3 Create Case Study when you follow the criteria in the rubric below.

Formatting	<ul style="list-style-type: none"> ● Topic – The topic of your CS3 assignment is one of your projects from this course. <ul style="list-style-type: none"> ○ Select one project from this course FROM YOUR GROUP. ○ It may be any of your three projects. ○ Once you have an idea for how to package it as a case study you may discuss it with the instructor (they usually help you develop it a bit and lock in) ● Repository – A GitHub repo (and cloud storage folder if necessary) containing all materials <ul style="list-style-type: none"> ○ Submit a link to the repo ○ Everything is contained in the repo or linked to it if appropriate. ○ Contents <ul style="list-style-type: none"> ▪ Hook document ▪ Rubric ▪ Various Materials (data, code, articles, etc.) ▪ Elements from the MI3 rubric as appropriate ○ Use pdf format when possible ○ For code and data products use the appropriate format for whatever it is ● Hard copy - The idea is that someone could pick it up and understand the case study. <ul style="list-style-type: none"> ○ Use a Manilla folder ○ One page hook document (pdf) paperclipped to left front

	<ul style="list-style-type: none"> o Rubric behind the hook document o Print out two sources and attach them to the right. <ul style="list-style-type: none"> o A blog post or similar explainer – more depth than the hook but still something that inspires/gives confidence o An article or similar – you have lots of freedom to select something that helps explain a component of the case study o Hook Document – 1 page pdf o Rubric – A rubric in this style and describing the deliverable you want the 2nd year to produce (about 2 pages in pdf format) o Materials – Files as appropriate
Hook Document	<ul style="list-style-type: none"> ● <u>Goal</u>: This pdf should make a 2nd year UVA student excited to engage with your case study. ● Create a scenario and place the student in the ‘driver’s seat’ ● Make clear the topic/context/motivation ● Indicate what deliverable the student is to produce but withhold details, those come in the rubric. This is a high level mission document not a specifications document. ● One page maximum ● PDF format
Rubric	<ul style="list-style-type: none"> ● <u>Goal</u>: Explain the purpose, task, and criteria. This is where the details live to answer questions for the student. ● Use this document’s format. There is no need to reinvent the wheel. ● The goal is about 2 pages.
Materials	<ul style="list-style-type: none"> ● <u>Goal</u>: Include materials necessary for a student to engage with the case study. ● This will vary wildly from case study to case study. ● Include a blog post or other type of explainer that helps motivate and start the project ● Include more technical articles / documentation as appropriate ● Data, code, etc. – so that they can perform the work ● Place ALL materials in the repo as possible and in a cloud repository if too large for github.

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