Case Study Rubric

DS 4002 – Spring 2025

Due: Spring 2025, End of Class

Submission format:

- **Upload link to Github repo to canvas**

Individual Assignment

General Description: Submit to canvas a link to your repository in which you complete the case study

Why am I doing this? This is an opportunity to showcase your coding and project skills with a tangible result that can be used in a portfolio later. This can also help you to develop career-building skills, as this resembles a project in a professional setting. This work also allows you to see the application of data science in a broader context and fields it can relate to.

- Course Learning Objective: complete a project using skills in image classification

What am I going to do? In this assignment, you will replicate and reproduce a project done by a student in the Fall semester 2024 DS 4002 course. The project can be found at https://github.com/marisagua/CaseStudy/tree/main. This assignment involves going through the project hook document to understand the project motivation and deliverable asked of you, reading relevant reference materials, and following steps to code with the data provided. Deliverables include:

- Written case study review - describing your project experience and interpretation of the study
- GitHub repository - showcasing your project output and code

How will I know I have succeeded? You will meet expectations on this assignment when you follow the criteria in the rubric below.

Spec Category	**Spec Details**
Formatting	Written Portion ● Submitted as a PDF to the GitHub Repository GitHub Repository ● Submitted as a weblink to the course Canvas page ● Title should be “CS-[Name]-[CS3]” References ● Should be included at the end of the READ.ME

	portion of your github ● APA format
Written Portion	This is an opportunity to reflect on your project success, challenges, and overall review of this student's case study. Please make sure to include the components below: ● Project overview: Include a paragraph highlighting the project motivation, context, and purpose of the project ● Reproduction steps: What steps did you take to reproduce this project? ● Challenges: What are any challenges you encountered in doing this case study? How did you overcome them? ● Feedback: Include at least one positive and one negative critique of this case study. How could this project focus (image classification) be used to aid in another field of study?
GitHub Repository and Code	Your github repository should include: ● Dataset used for the project, as well as a link to where this data came from ● Code scripts for EDA and modeling ○ These should be well annotated to allow for someone to understand each step ● Written Portion described above ● README.md ○ Giving a brief overview of this case study and what the components are within your github ○ This should also include a link to the initial github repository with the case study ○ Additional section with references
References	As described above, references will be added to the end of your GitHub README.md. Please make sure to include: ● The original GitHub in which this case study came from ● Any additional resources or helpful articles you used to complete the coding component of this project