

Final Project: Project Progress

DSCI 222 – Data Science Workflow using Python
School of Mathematical and Data Sciences
West Virginia University

Instructions

This is our second individual project progress presentation, an opportunity to further show your technical and soft skills to solve a real problem. Let's Go!

- **Deliverables:** A recorded video presentation and a one-page report.
- All deliverables must be in a folder created in your Google Drive account. The folder's name follows this format: `DS_Project_X_LastName_FirstName`, where X represents the number of the project progress presentation.
- Set share folder permissions so `chood@mix.wvu.edu` can access and run every file and notebook.
- Include your **full name** at the top of your report.
- Include your report in PDF format, written in LaTeX.
- Everything counts! Include as much as you want in your deliverables, even if the activity is not fully complete by the deadline. *Important:* Review the grading policy and course policies in the online syllabus.
- **Total: 100 points.**

Deliverable 1: Video Recording

Create a recorded video presentation of the current status of your project.

- **Duration:** Minimum 5 minutes, Maximum 7 minutes.
- Please show your face through your webcam while you share your screen and discuss your findings and progress.
- Attire matters during the presentation as it reflects professionalism.

Every item not followed will result in a penalty. Presentations with little engagement are usually a bad sign. Use this opportunity to convince others of the importance of your project.

Minimum Expected Elements

- Problem Statement (10 pts) — Provide a clear explanation of the challenge, problem, or issue, written so it is understandable to both general and specialized audiences. If this problem statement differs significantly from your Project Planning deliverable, be sure to highlight and explain the differences. Include explanations for what initiated these changes.
- Mathematical/Statistical Aspects (10 pts) — Provide a clear explanation of the mathematical and statistical components of your project.
- Progress Since Project Planning (10 pts) — Describe what you have accomplished since the Project Planning deliverable. Include progress, changes, updates, and challenges encountered.
- Current Code Explanation (10 pts) — Describe your current code. What have you written so far, and what do you plan to add or improve? Don't feel obligated to show your code in your recording. I can find it in your shared drive while the video can focus on you.
- Datasets (10 pts) — Describe the dataset(s) you are using. Why were they chosen? Will multiple datasets be integrated? By this stage, your datasets should be available in your shared drive.
- Plan (20 pts) — Provide a clear explanation of your plan for the remainder of the semester, including a week-by-week schedule. Crunch time is approaching!
- Future Challenges (10 pts) — Discuss any foreseeable obstacles or difficulties.

Although future activities may deviate from the plan, aim to create a feasible and clear direction. Use figures, equations, and multimedia to strengthen your message.

Deliverable: Video recording.

Deliverable 2: One-page Report

Write a one-page report addressing the following:

- How has your approach to this project changed since the Project Planning deliverable? (5 pts)
- How has your approach to making this video changed since the Project Planning deliverable? (5 pts)
- What is the largest obstacle you have faced so far in this project? It can be related to the code, data collection, math, etc. (5 pts)
- Describe the process you've taken to ensure this project progression falls within the scope of your current abilities and time constraints? How does the current project's complexity compare to what you originally had envisioned? (5 pts)

Deliverable: One-page report.