

# Final Project: Project Demonstration

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

## Instructions

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

- **Deliverables:** Oral presentation with supporting code
- 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.
- 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 : Oral Presentation

Present your project, code, outputs, results, and analysis to the class.

- **Duration:** Minimum 7 minutes, Maximum 10 minutes.
- Attire matters during the presentation as it reflects professionalism.
- Since this is the first time many classmates will be seeing your project, it is expected that some of the material covered in the Project Planning and Project Progress will be repeated for this new audience.

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 Progress deliverable, be sure to highlight and explain the differences. Include explanations for what initiated these changes.
- Project Summary (10 pts) — Provide a summary of how your project took shape throughout the semester. Highlight any modifications, improvements, adjustments of scope, etc. that occurred. Provide some background for those unfamiliar with your project.
- Datasets (10 pts) — Describe the dataset(s) you used. Why were they chosen? Will multiple datasets be integrated? By this stage, your datasets should be available in your shared drive.
- Mathematical/Statistical Aspects (10 pts) — Provide a clear explanation of the mathematical and statistical components of your project. These should highlight multiple areas of data science that have been covered throughout the semester.
- Code Explanation (30 pts) — Describe your code. Explain both what your code is doing and why you chose to write it in the manner in which you did.
- Conclusion (10 pts) — Describe the current conclusions you are getting based on your results, and justify the reasoning behind them. Use figures, equations, and multimedia to strengthen your message.
- Future Work (10 pts) — If you were to choose to continue with this project, how would you continue to add and improve upon what you have been able to accomplish?
- Question and Answer Session (10 pts) - Following your presentation, there will be a few minutes for members of the class to ask you questions about your project.