



Final Project

Objective: The final project is an opportunity for you to apply the data science skills you have learned in this course to a real-world dataset of your choice. You will analyze the data, derive insights, and present your findings in a comprehensive report and presentation.

Project Requirements

- **Dataset:** Select a dataset that is complex enough to demonstrate your data analysis skills.
- **Tools:** Use Python, or any other data science tools we have covered in the course.
- **Analysis:** Perform exploratory data analysis, statistical analysis, and predictive modeling.
- **Visualization:** Create meaningful visualizations to support your findings.
- **Report:** Write a detailed report explaining your methodology, analysis, and conclusions.
- **Presentation:** Prepare a 5-minute presentation to showcase your project to the class.

Deliverables

- Report: a PDF document of your project and results.
- Presentation: Submit your presentation slides in PDF or PowerPoint format.
- The project notebook contains the code and comments in English.
- The dataset used to obtain the results provided through files or a link.

Final Project Grading Structure

1. Final Project – 70 Marks

- Project Objectives Achieved
- Datasets Used (description, relevance, preprocessing)
- Research Questions (clarity, relevance, originality)
- Methodology (soundness, justification, reproducibility)
- Tools and Technologies Used (appropriateness, integration)
- Deliverables (results, insights, visualizations, conclusions)

2. Project Presentation – 30 Marks



Rules

- The total marks are 100.
- Work in group of 4 (max). University Academic Honesty Rules and Procedures will be adhered to strictly.
- Zero tolerance will be given to academic fraud of any sort, including copying content from the internet and/or other assignments.
- Please name your assignment file as INFO212-finalproject-group-number.zip, with the required deliverables.
- Submit your assignment file via moodle until the due date.
 - Assignments will not be accepted beyond that point. Missing work will earn a zero grade.
- Images must be clear and legible. Assignments will be judged on the basis of code, visual appearance, grammatical correctness, and quality of writing, as well as their contents. Please make sure that the text of your assignments is well-structured, using paragraphs, full sentences, and other features of well-written presentation. Text font size should be at least 11 points.
- Presentation will follow the group numbers order.

Tips for Success

- Start early and manage your time effectively.
- Keep your code organized and well-commented.
- Practice your presentation multiple times.
- Be prepared to answer questions about your work.

Questions?

If you have any questions or need guidance, please feel free to reach out your professors during office hours or via email. However, questions must be sent up to 72 hours of the deadline set for the submission of the assignment. Questions sent after the 72 hours deadline, will not be answered.