



MSBD566 – Predictive Modeling and Analytics

Assignment 3 – Midterm Project

Project description

This project builds on the data you submitted in Assignment 2.

Your task is to apply a **classification or clustering** method that we have learned in class. You may choose **at least one method** and must:

- Process your data using that method.
- Evaluate and interpret your results.
- Include supporting materials such as tables, charts, and relevant visualizations to strengthen your analysis. At least **one type of visualization about the results** must be generated and presented in the presentation and report.

Submissions

1. Presentation (40 points)

Each student will be allocated 7 minutes. The presentation should cover the details listed in the report section, with a larger portion highlighting the methods and results.

Presentation day will be during class on **October 22, 2025**.

2. Report (40 points)

Submit a short report (PDF format) that summarizes your project – you can use the template attached to this assignment. The content should align closely with your presentation and include:

- Header Information:** Include your name, course name, date, and assignment title.
- Project Description:** Define the problem you are addressing and explain why it is important or relevant.
- Data Description:** Describe your dataset (what it represents and how it was collected), include a link to the data source, and provide any relevant notes about this data.
- Method and Analysis:**
 - State the method you used
 - Explain why you chose this method.
 - List the variables or features used.
 - Present your results (tables, charts, or visualizations).
 - Interpret and discuss your findings.
- Simple evaluation:**
 - Assess the performance or effectiveness of your method.
 - Provide metrics, accuracy, or any relevant evaluation discussion if necessary.

3. ***GitHub or working folder (20 points)***

Place your code, data, report (and any other files required to run your code, if applicable) in a GitHub repository or a working folder. You have the option to share your public repository link or submit the full zip file of the repo/folder during the submission. Slides submission is optional.

All required files must be submitted by **October 24, 2025, at 11:59 p.m. CT through Blackboard**. Late submissions will be accepted up to 2 days with a penalty of 5 points per day. **No submission will be accepted after October 26, 2025, 11:59 p.m. CT, without prior approval.**

If you encounter any issues with the submission before the deadline, please email me immediately at nazirah.mohdkhairi@mmc.edu.

AI Policy for this project

You may use AI tools to:

- Clarify concepts,
- Understand terminology, or
- Generate examples.

However, AI should not be used to complete your project or generate your report content directly.