**AMOD 5250**

# TERM PROJECT

## Important Submission Details:

- Your project is **due at 11:59pm on Friday, December 8, 2023**
- Microsoft Word, Adobe PDF and R Markdown are all valid file formats
- Please prepare the written portion of your assignment in Times New Roman, 12-point font with 1-inch margins
- Submit your finished project via Blackboard
- *Late assignments lose 10% per day including the due date*

## Assignment Summary:

You may choose from one of the following two options for your term project:

1. You may use R to perform an appropriate empirical analysis on a dataset relevant to your home discipline. In a 4000-word research lab report, you must cite at least ten separate sources in an introduction, document your method and results, and write a discussion that relates your results back to your literature review/introduction (please follow this IMRAD format exactly – see accompanying video for details). Emphasis is on reviewing literature and using analyses in R to advance existing research. Thesis stream and PhD students are encouraged to use their own data. **NOTE: You cannot use the same dataset from a previous assignment (i.e., Assignments 2 or 3) for your Term Project if you pick option 1**.

2. You may develop your own application in R. You must also provide a 2000-word document that describes the purpose of the application, the problems it addresses (backed by literature), as well as clear instructions on its operation. You must submit commented code as well as a working, platform independent executable.

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## Data Sources:

You are free to choose your own and may also use datasets from your ongoing research or from your other graduate classes. If you need inspiration, however, you may consider datasets from the following sources. Note that some of these are real competitions!

Kaggle Datasets
GitHub Public Datasets
Driven Data Competitions
CrowdANALYTIX Competitions
Google Public Dataset Search
UCI Machine Learning Repository

## Evaluation:

| For Option 1 | | For Option 2 | |
|---|---|---|---|
| Lit Review/Introduction: | 30% | Background: | 25% |
| Method: | 15% | Instructions: | 15% |
| Results: | 15% | Prototype: | 50% |
| Discussion: | 30% | | |
| Clarity of writing/code comments: | 10% | Clarity of writing/code comments: | 10% |
| **Total** | **100%** | **Total** | **100%** |