1034 Final Project

# OVERVIEW & PURPOSE

This project will bring together all of the skills you have learned in this class and allow you to showcase your work to the public. It will incorporate data capture, entry, cleaning, transformation, analysis, modeling, and action plan. Most importantly, you will drive business value through the usage of data and demonstrate industry best practices.

# REQUIREMENTS

1. Use Python as the major tool for work with data
2. Ensure your work is 100% transparent and reproducible
3. Present your work in a high quality fashion through the use of Jupyter Notebooks

# OBJECTIVES

1. Find a topic for your project
   1. Plenty of data available for analysis
   2. Business case can be made to analyze - i.e. is there an action plan that can impact a business in this industry?
   3. Requires advanced data analysis techniques
   4. Is interesting / creative - i.e. not just following analysis that has been done by thousands of others already online
2. Create a roadmap for completion of your project
   1. Include objectives & goals as well as technical details
   2. This is not set in stone
3. Clearly document all of the following:
   1. Collect / find / enter data
      1. Be careful to ensure you are following best practices to avoid biases
      2. Ensure ethical data collection and that you are legally allowed to use data
   2. Clean data
   3. Transform / Wrangle data
   4. Analyze data
   5. Model data
   6. Show findings
4. Create write-up of all steps
   1. Jupyter Notebook to be used
   2. Will look professional
   3. Will be 100% reproducible
      1. Anyone should be able to run your notebook and get the same results
   4. Ensure everything contributes to the business goal you set out to accomplish and highlight that throughout the write-up
5. Create a video of the presentation to walk through your code and result.

Due date: April 23, 2022 at am