PROJECT DESCRIPTION

Project (Minimum Requirements):

- Teams have to choose their own datasets. You may use one of the sources listed below to find a dataset that interests you.

- Datasets must be anonymized and not include any personally identifiable information or confidential information.

- The dataset must have at least 300 observations and must be approved by the instructor.

- The project report (sections 2 through 6) should be 7 to 15 pages in length (12 points, Times New Roman, double-spaced, and 1-inch margins).

1. **A cover page**: paper title, dataset name, team name, and students' names.

2. **Introduction:** this section should include background of the context. The team needs to explain the objective of their study (explain the question you are trying to answer and the problem you are trying to solve). The team should motivate the problem using statistics from verified/trustworthy sources (references should be included).

3. **Methods:**

   - Description of the dataset and the variable that are used in the analysis.

   - Measurement/scale and definition of variables that are used in the analysis.

   - Descriptive statistics/visualization. Present your results in table(s) and graph(s).

   - Methodology used to run analysis.

4. **Results:** explain the results. Should include at least 1 table.

5. **Discussion:** discuss the implications of the results.

6. **Conclusion:** Provide key practical implications based on the findings.

7. **References** (if any)

Popular Sources of Datasets:

https://www.kaggle.com/datasets

https://archive.ics.uci.edu/

http://www.pewinternet.org/datasets/

https://hints.cancer.gov/data/default.aspx

https://catalog.data.gov/dataset

Search for Datasets:

https://toolbox.google.com/datasetsearch

Presentation:

The ideal presentation length is 8-10 minutes.

Project Report Evaluation Rubric

The evaluation rubric is on a 10-point scale on each of the following items:

1. Formatting and style: professional and consistent?

2. Introduction: Is the introduction appropriate, and does it provide a concise lead-in to the report given?

3. Data: Is the data adequately documented?

4. Problem: Is the problem(s) clearly defined, and are objectives of the study precisely given?

5. Data description: Is the data adequately described?

6. Visualization and Tables: Are appropriate tables, graphics and visuals provided?

7. Analysis: Were appropriate analytical methods used and adequately explained?

8. Results: Are results discussed accurately and clearly?

9. Discussion: Is the discussion complete, accurate, and relevant?

10. Conclusions: Are conclusions concisely given?

Presentation Evaluation categories:

	Inadequate	Fair	Excellent
Category	0	1	2
Subject Knowledge (Analytics)			
Subject Knowledge (Context of Study)			
Quality of Information			
Organization			
Ability to answer questions			

Total (out of 10)	