

# COGS108 Final Project Checklist

Students have asked for a rubric. While the points for each of these checkboxes is not included, you can use this checklist to help guide your thinking on the final project. If you check off all the boxes below, you should be in good shape to get a perfect score on your final project.

## ☐ Introduction & Background (3.5 pts)

### ☐ Overview:

- ☐ Write a clear summary of what you did
- ☐ Limit overview to 3-4 sentences

### ☐ Research Question:

- ☐ Include your *specific* data science question
- ☐ Make sure what you're measuring (variables) to answer question is clear

### ☐ Background & Prior Work

- ☐ Include explanation of what work has been one previously
- ☐ Include citations or links to previous work

### ☐ Hypothesis

- ☐ Clear Hypothesis Included
- ☐ Hypothesis explained as to why you think this will be the outcome

## ☐ Dataset(s) (3.5 pts)

- ☐ Explanation of datasets included (i.e. features/variables included, number of observations, information in dataset)
- ☐ Source included (if outside dataset(s) being used)

## ☐ Data Analysis

### ☐ Data Cleaning & Pre-processing (3.5 pts)

- ☐ Data Cleaning Performed and explained OR explanation included as to why data cleaning was unnecessary (how did you determine your dataset was ready to go)
- ☐ Dataset actually clean and usable after data wrangling steps carried out

### ☐ Data Visualization (5.25 pts)

- ☐ At least three visualizations included
- ☐ All axes on plots labeled
- ☐ Type of all plots appropriate given data displayed
- ☐ Each visualization is interpreted in text

### ☐ Data Analysis & Results (8.75 pts)

- ☐ EDA carried out with explanations of what was done and interpretations of output included
- ☐ Appropriate analysis performed
- ☐ Output of analysis interpreted and interpretation included

## ☐ Privacy/Ethics Considerations (5.25 pts)

- ☐ Thoughtful discussion of ethical concerns included
- ☐ Ethical concerns consider the whole data science process (question asked, data collected, data being used, bias in data, analysis, post-analysis, etc.)

## ☐ Conclusion & Discussion (5.25 pts)

- ☐ Clear conclusion (answer to the question being asked) and discussion of results
- ☐ Limitations of analysis discussed
- ☐ Does not ramble on beyond providing necessary information