1. Use machine learning (ML) with the technologies we’ve learned.

* We did this in the analysis section.

1. You must use Scikit-learn and/or another machine learning library.

* We used this in the analysis section.

1. Your project must be powered by a dataset with at least 100 records.

* Our data has over 8000 records

1. You must use at least two of the following:

* **Python Pandas**
* **Python Matplotlib**
* **HTML/CSS/Bootstrap**
* JavaScript Plotly
* JavaScript Leaflet
* SQL Database
* MongoDB Database
* Google Cloud SQL
* Amazon AWS
* Tableau
* We used python pandas, matplotlib and html

**Data Model Implementation (25 points)**

* A Python script initializes, trains, and evaluates a model (10 points)
* Did this analysis.
* The data is cleaned, normalized, and standardized prior to modeling (5 points)
* Did this analysis.
* The model utilizes data retrieved from SQL or Spark (5 points)
* Did we do this??
* The model demonstrates meaningful predictive power at least 75% classification accuracy or 0.80 R-squared. (5 points)
* Did this in the analysis.

**Data Model Optimization (25 points)**

* The model optimization and evaluation process showing iterative changes made to the model and the resulting changes in model performance is documented in either a CSV/Excel table or in the Python script itself (15 points)
* Did this – twice in the analysis
* Overall model performance is printed or displayed at the end of the script (10 points)
* Did this – twice in the analysis

**GitHub Documntation (25 points)**

* GitHub repository is free of unnecessary files and folders and has an appropriate .gitignore in use (10 points)
* Yes!
* The README is customized as a polished presentation of the content of the project (15 points)
* This will be done before class starts on 3/12.

**Group Presentation (25 points)**

* All group members speak during the presentation. (5 points)
* Content, transitions, and conclusions flow smoothly within any time restrictions. (5 points)
* The content is relevant to the project. (10 points)
* The presentation maintains audience interest. (5 points)

**Breakdown of Project Tasks via Day 1**

Jessica: 1 model implementation and optimization

Melissa: 1 model implementation and optimization

Ryan: Flask app

CJ: HTML building for presentation

**Actual Breakdown of Project Tasks**

Jessica: 1 model implementation and optimization, Flask app troubleshoot

Melissa: 1 model implementation and optimization, HTML Analysis and Conclusion, Readme

Ryan: Flask app, HTML Introduction and other HTML items

CJ: ????