**Team:** Allyson McInnis, Kayli Aguilera, Annie Donnelly, Liberty Heise



**Coffee Quality Analysis**

Tools Utilized:

* Pandas with Google Colab
* HTML/CSS/Bootstrap
* SQL for Loading into Tableau
* Tableau for tables

Things to do:

* Start an .ipynb with our dataset to ETL (Allyson)

Subtract harvest year from grading year?

* Machine Learning Prediction of Coffee Quality (Annie)
* Load data to SQL, and upload data into Tableau for chart making (Liberty)
* Slides (Kayli)

Monday: notebook with ETL,

Wednesday:

Thursday: Begin SQL and Tableau to finalize

Monday: Finish ReadMe, GitHub and Colab to practice presentation

**Requirements**

#### **Data Model Implementation (25 points)**

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

#### **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)
* Overall model performance is printed or displayed at the end of the script (10 points)

#### **GitHub Documentation (25 points)**

* GitHub repository is free of unnecessary files and folders and has an appropriate .gitignore in use (10 points)
* The README is customized as a polished presentation of the content of the project (15 points)

#### **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)

### **Grading**

This project will be evaluated against the requirements and assigned a grade according to the following table: