

AAI-500 – Team Project Status Update Form

Fill out this form and submit it by the end of Module 4 in Blackboard.

Team Number: 2

Team Leader/Representative: Sowrab R Iyengar

Full Names of Team Members:

1. Sebin Thankachan
2. Kesavan Rangaswamy
3. Sowrab R Iyengar

Title of Your Project: Wine Quality Prediction Analysis

Short Description of Your Project and Objectives:

This project aims to analyze the Wine Quality dataset, which contains chemical properties of wines, and build a predictive model to classify the wine's quality. The objectives of the project include data cleaning, exploratory data analysis (EDA), and the selection of machine learning models to accurately predict wine quality based on features such as acidity, alcohol content, and sulphates.

- Understand the relationships between various wine characteristics and quality.
- Build predictive models to classify wine quality as either "high" or "low."
- Evaluate model performance and provide recommendations for improving wine quality predictions.

Name of Your Selected Dataset: <https://www.kaggle.com/code/djsquiggles/starter-red-wine-quality-fd717a1f-3>

Description of Your Selected Dataset (data source, number of variables, size of dataset, etc.):

- **Data Source:** Wine Quality dataset, <https://www.kaggle.com/code/djsquiggles/starter-red-wine-quality-fd717a1f-3>.

- **Number of Variables:** 12 features (fixed acidity, volatile acidity, citric acid, residual sugar, etc.) and 1 target variable (quality).

Are you using and practicing GitHub as a code hosting platform for version control and collaboration? If yes, provide the link here: https://github.com/usdteam2-sri/Team2_Modul1_Final_Project.

How many times have your members met in the last two weeks? 4

List the specific contributions that each team member is providing for the Final Team Project in the table below.

- **NOTE:** ALL students on the team should contribute equally to the Final Team Project.

Team Member 1 – Sebin Thankachan	Team Member 2 – Kesavan Rangaswamy	Team Member 3 – Sowrab R Iyengar
List of contributions	List of contributions	List of contributions
Identifying datasets apt for the project	Identified what kind of analysis to perform on the dataset	Helped with setting up Git repo and working on the converting the analysis to a code base.
Contributed to the code base	Contributed to the code base	

Comments/ Roadblocks: Identifying the right dataset on which multiple analysis can be performed to have a meaningful result.