PROJECT PROGRESS REPORT

1) **Name Of Project: RedWineQuality(**wineQualityReds.csv**)**

Project Description

- It shows relation between quality and other variables , our target variable is quality, and want to see how good the other variables are predictor of quality of wine. We want to do transformation to see if we can increase correlation coefficient between them. Used stepwise variable selection method to choose best predictor of wine quality.

Goal

- Our focus is to see how each chemical component influences the quality of wine (0 'very bad' to 10 'very excellent'). The usage of this analysis will help to understand whether by modifying the variables, it is possible to increase the quality of the wine on the market.

2) **About the Dataset**

In this project we do Analysis of **Red Wine Data** which contains 1,599 red wines with 12 variables (fixed acidity, volatile acidity, citric acid, residual sugar, chlorides , free sulfur dioxide , total sulfur dioxide , density , pH , sulphates , **alcohol , quality)** on the chemical properties of the wine.

3) **Responsibility Of Each Team Members:**

4) **Project Progress:**

- Cleaning Dataset

  (Cleaning/removing invalid values from rows, Cleaning up columns, Handling Null Values, Removing/filling missing data)

- Data Analysis

- To make predictions of wine quality and any other if required, Models we used to check the accuracy

  - Models We Used So Far : Logistic Regression , Linear Regression, KNearestNeighbors, Decision Tree, Random Forest

5) **Team Members Name And CIN :**

- Kruti Shah (306650284)
- Ravi Amin (306598765)
- Riddhiben Patel (306587208)
- Rutviben Patel (306612701)
- Smitkumar Kaushikkumar Patel (306612701)