GROUP PROJECT
PROPOSAL

COLLABORATORS

Chuck Bui
Jack Jeffries
Beau Massie
Christopher Turner

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Introduction

VinoVista, a renowned winery, is committed to producing consistently exceptional wines. However, they have observed variability in the quality of their white wine batches. To address this challenge, VinoVista seeks a predictive model that can accurately assess the quality of wine batches based on their chemical properties before bottling.

Objectives

The primary objective of this project is to develop a robust machine learning model capable of predicting wine quality on a scale of 0-10. This model will utilize a dataset containing various chemical properties of wine, such as acidity, pH, residual sugar, chlorides, free sulfur dioxide, total sulfur dioxide, density, sulfates, and alcohol content.

Dataset:

Author	Dataset Name	Access
Paulo Cortez A. Cerdeira F. Almeida T. Matos J. Reis	Wine Quality	https://archive.ics.uci.edu/dataset/186/wine+quality

Notes:

For more details, consult: http://www.vinhoverde.pt/en/ or the reference [Cortez et al., 2009]. Due to privacy and logistic issues, only physicochemical (inputs) and sensory (the output) variables are available (e.g. there is no data about grape types, wine brand, wine selling price, etc.).