

Low Level Design

Analysing world's best wine
reviews

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Last Revised Date	

DOCUMENT CONTROL

Change Record:

VERSION	DATE	AUTHOR	COMMENTS
0.1	5- sept - 2024	Saurav	Introduction and architecture defined
0.2	12 - sept - 2024	Saurav	Architecture & Architecture description appended and updated.

Reviews:

VERSION	DATE	REVIEWER	COMMENTS
0.2	13- sept - 2021	Saurav	Unit test cases to be added

Approval Status:

VERSION	REVIEW DATE	REVIEWED BY		APPROVED BY	COMMENTS

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ABSTRACT

Wine is an alcoholic beverage made from fermented grapes or other fruits. The process of making wine involves crushing and fermenting the fruit, usually grapes, to produce a liquid that contains alcohol.

This dataset presents a comprehensive collection of wine information, including wine name, winery, category, designation, varietal, appellation, alcohol content, price, ratings, reviewer information, and reviews. The data is sourced from various wine publications, online retailers, and wine critic websites. The dataset can be used for various purposes, such as wine education, retail applications, and research.

The objective of the project is to build a predictor that will help to understand the wine quality, Analyzing world's best wine and its data pattern. The goal is to model wine quality based on physicochemical tests.

INTRODUCTION

➤ What is a Low Level Design Document?

The goal of LLD or a low-level design document (LLDD) is to give the internal logical design of the actual program code for Credit Card Default Prediction. LLD describes the class diagrams with the methods and relations between classes and program specs. It describes the modules so that the programmer can directly code the program from the document. Low-level design is a detailed description of every module of software. It describes every module in detail by incorporating the logic behind every component in the system. It delves deep into every specification of every system, providing a micro-level design.

➤ Scope

Low Level Design (LLD) is a component level design process that follows a step by step refinement process. This process can be used to design data structure, required software architecture, source code and ultimately performance algorithm. Overall, the data organization may be defined during requirement analysis and then refined during data design work.

➤ About the Project

To create a comprehensive database of wine information that includes key attributes such as wine name, winery, category, designation, varietal, appellation, alcohol content, price, ratings, reviewer information, and reviews. This database will serve as a valuable resource for wine enthusiasts, retailers, and industry professionals.

➤ Dataset Information The Wine table will store information about individual wines, including their name, winery, category, designation, varietal, appellation, alcohol

content, and price. The Rating table will record ratings assigned to wines by reviewers. The Reviewer table will contain information about wine reviewers, such as their name and affiliation. The Review table will store detailed reviews of wines, including the reviewer's comments and overall rating. Data for the database will be sourced from various wine publications, online retailers, and wine critic websites. The data will be standardized and cleaned to ensure accuracy and consistency.

➤ Attribute Information

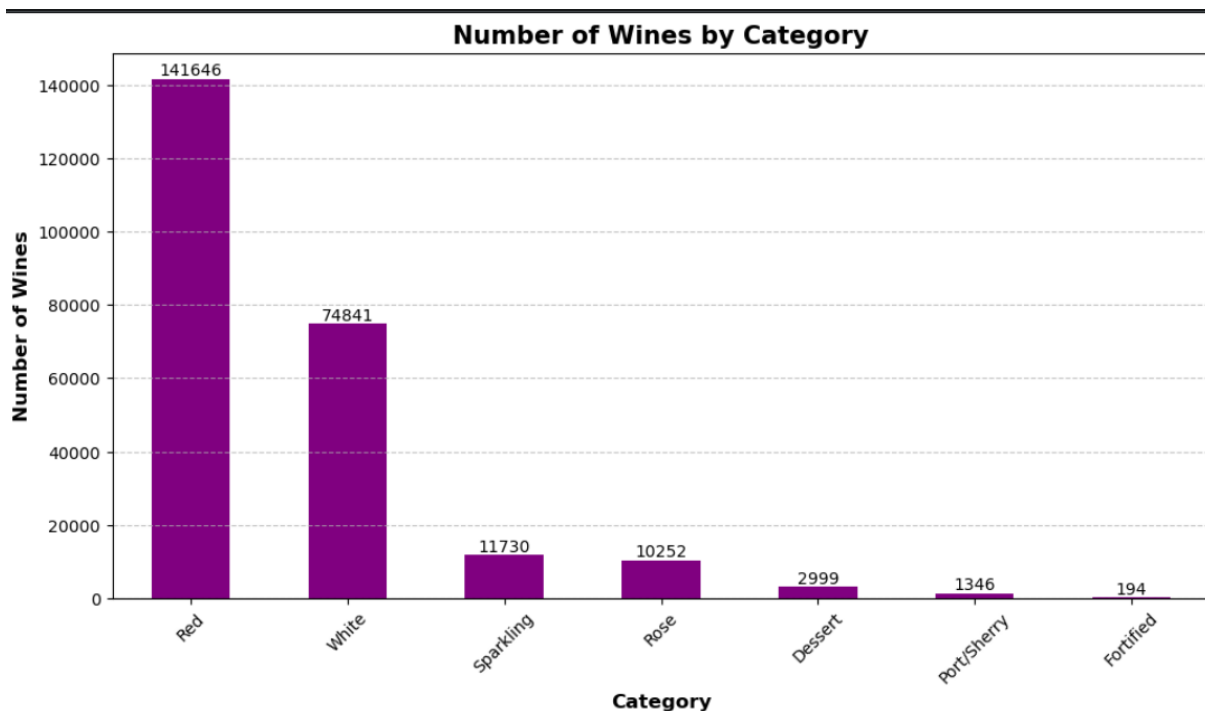
- wine
- winery
- category
- designation
- varietal
- appellation
- alcohol
- price
- rating
- reviewer
- review

➤ Dataset Information

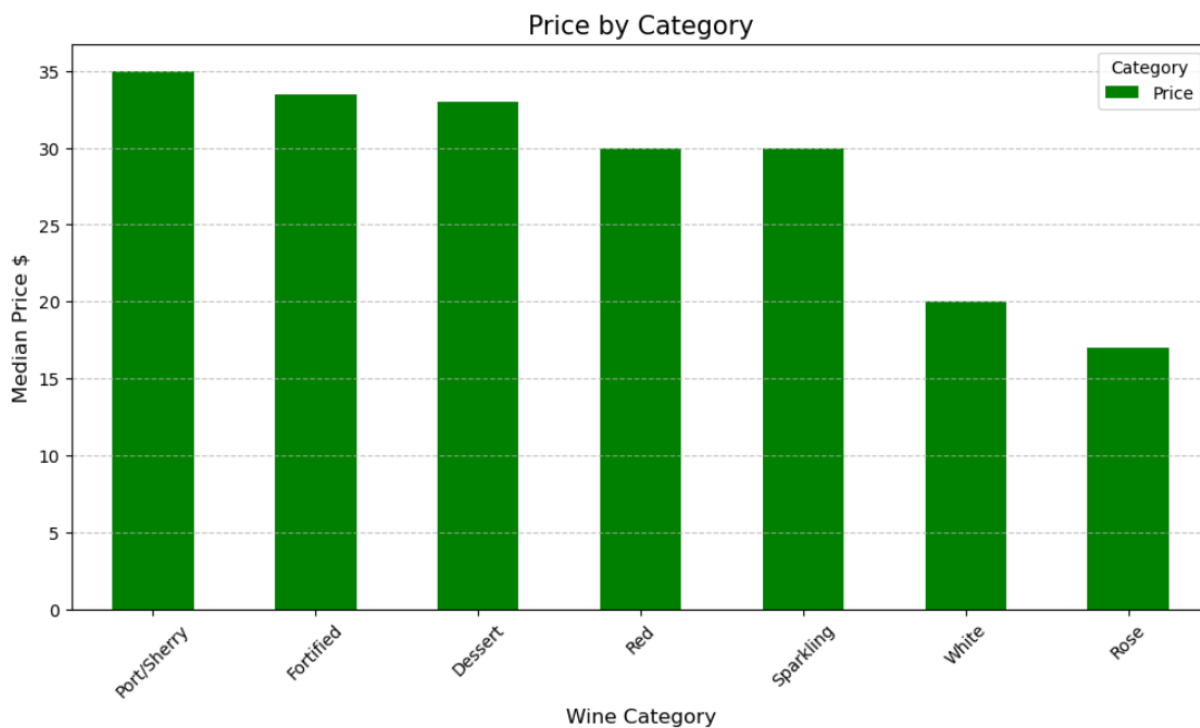
1. **Wine:** It is fermented alcoholic beverage from grapes being the main raw material. The flavor and traits of wine are influenced by many factors among them the type of grape, the region in which it is grown, winemaking techniques and the aging process.
2. **Winery:** Winery is where wine is made. It typically includes vineyards for grape-growing, a winery building as well as often a tasting room for public to get acquainted with and buy the wine.
3. **Category:** Category means the general style of wine - red, white or rosé, dictated by the colour of the grape skin used in winemaking.
4. **Designation:** The characteristics or quality of a wine as specified by its region and/or method of production, i.e. REGIONAL DESIGNATION (where most grapes must come from that region), VARIETAL DESIGNATION (75% source named grape), GENERIC (50% source name grape)
5. **varietal :**The term refers to the explicit grape variety used in producing the wine. Examples are Cabernet Sauvignon, Chardonnay, and Pinot Noir which are quite popular grapes.
6. **Appellation:** Appellation is a geographical area which has geographic trait that is reflected on the grapes quality. Wines produced in an Appellation will have more or less the same flavor characteristic and will also have certain reputation.
7. **alcohol :** By alcohol in the wine we mean the percentage of alcohol by volume (ABV). This is one of the key factors to classify body and flavor of the wine.
8. **Price:** The price of the wine is essentially the cost. What influences price? Grape variety, appellation, reputation of the winemaker, and quality come to mind.
9. **Rating:** Rating is a numeric or a descriptive assessment of the Wine Quality, which is given by an authority or expert in the field of wine – called critic.

- 10. Reviewer:** A Reviewer is a person, who evaluates and then writes about wine. Wine reviewers can be employed by publications, such as books, magazines, newspapers, specialist journals, newsletters and websites, or by wineries or wine shops to provide private reviews for marketing purposes.
- 11. Review:** Review is an evaluation of a wine's properties and the overall goodness thereof, encompassing not only the bouquet but also the flavors arising from the chemical reactions between the sugars, acidity and alcohol in the wine.

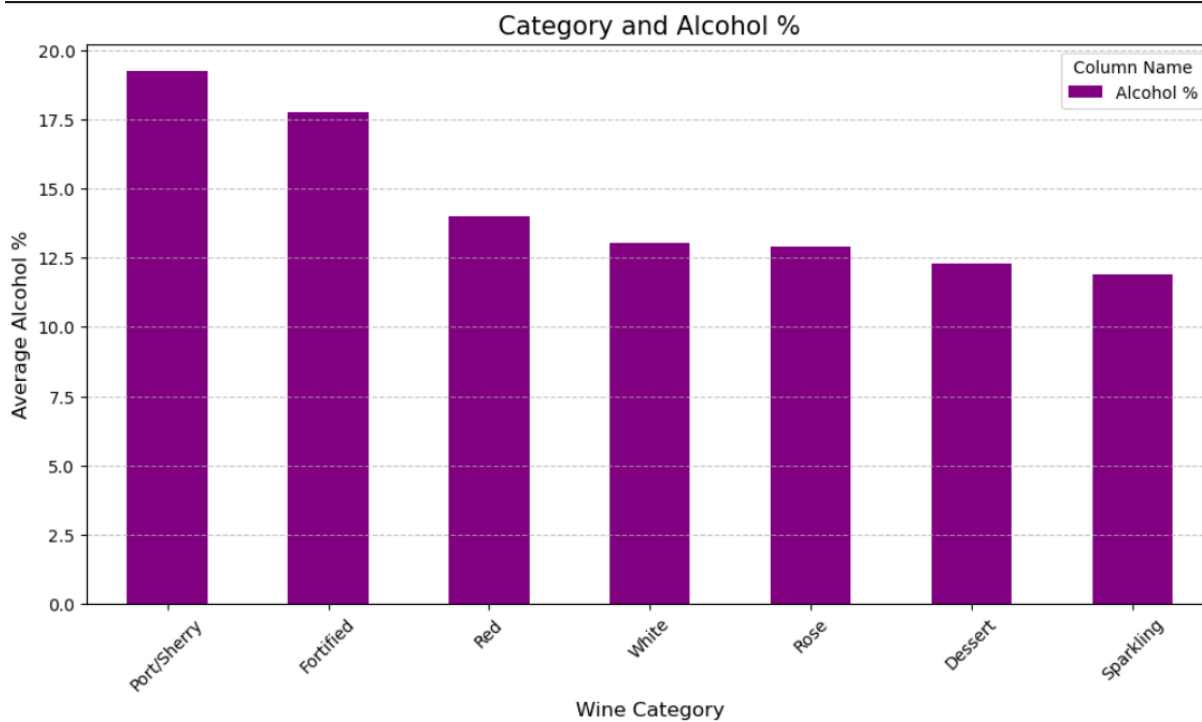
Number of Wines by Category:



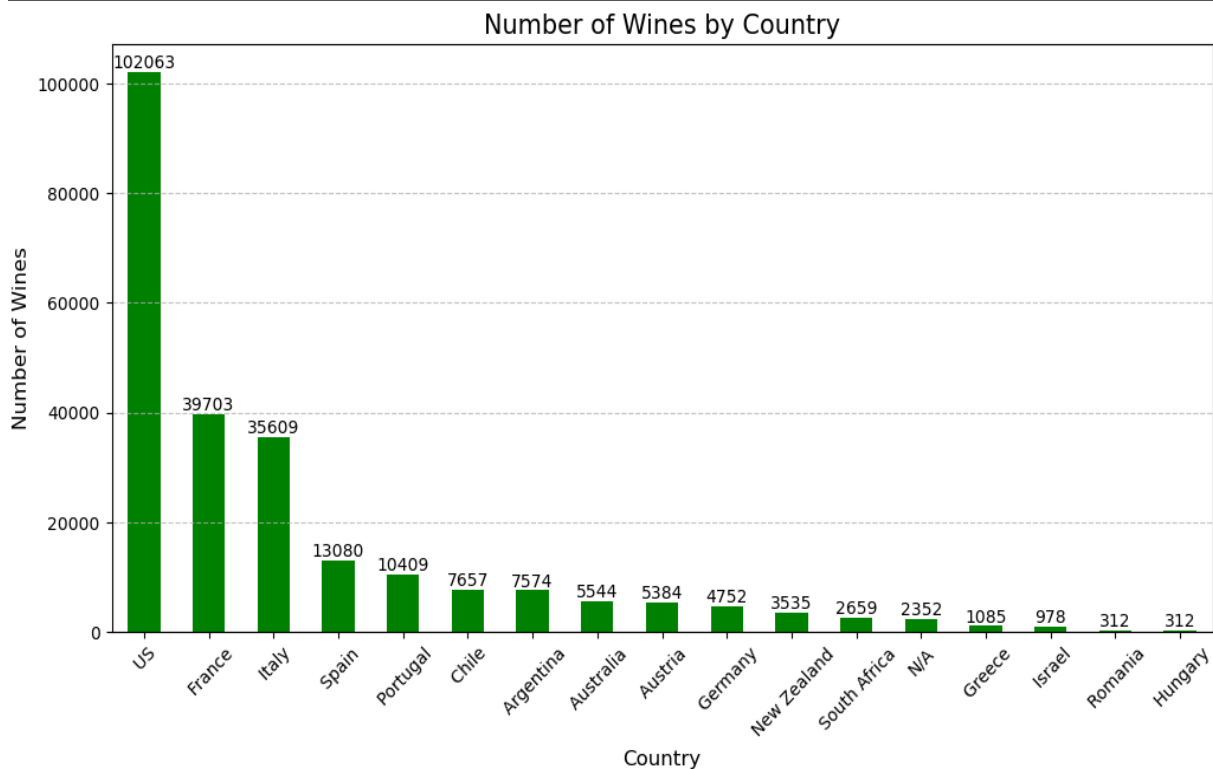
Price by Category



Category and Alcohol %



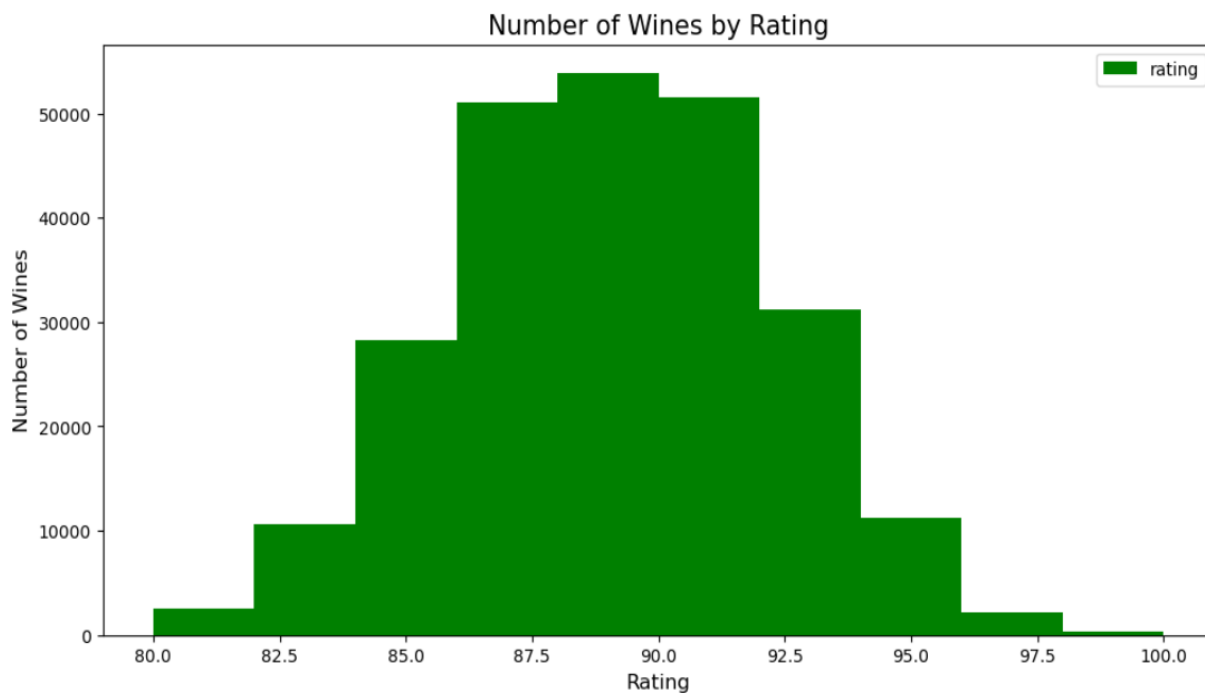
Number of Wines by Country



Price of Wine by Country



Number of Wines by Rating



Price of Wine And Alcohol %



Dashboard-

