

1 Introduction

It has always been your dream, and now it has become true. You have opened your brand new winery in Milan, *WineGenius!*

To do a proper *grand opening*, you have collected data about wines from all over the world. It is time to exploit your analytical mind to understand which are the best wines you should order.

2 Details

The zip file contains a `.csv` with several information about wines, e.g., names, varieties, and price. Specifically, we have:

1. wine information:
 - title: name of the product;
 - variety: variety of grapes used to make that wine;
 - designation: specific geographical location in which the wine is produced;
 - country: country of production;
 - province: province of production;
 - price: price of the wine;
 - winery: winery that produces that wine;
2. tasting ¹:
 - taster name: name of the taster;
 - description: description provided by the taster to the wine;
 - points: points assigned from the the taster to the wine.

Given these data, your goal is to answer the following questions *at best*.

Question 1 (4 points) Some winemakers have asked you to buy their wines, which are new products not present in your list. How would you exploit the data you have to estimate the best price to *buy* them?

¹It may happen that more tasters evaluate the same wine, giving different descriptions and points.

Please, notice that the prices reported in the file are related to the cost at which the corresponding wineries sell them.

Question 2 (4 points) Since you will have customers from different countries, you want to create a wine list that presents wines from different parts of the world. How could you identify which areas are similar for production? Select the best wines from such areas to create the best wine list.

Please, take into account that you will have different types of customers, from wine lovers to wealthy people, able to invest an interesting amount of money in your bottles.

Question 3 (2 points) One of the most interesting project you want to carry out is a *blind tasting* night every Wednesday. Describe which approach would you follow to identify the characteristics of a wine, e.g., variety or denomination, given their description.

Please, in your description specify how you would structure the project.