Insights from the Data

- 1. Top 5 countries with the most wine reviews
 - US 48153
 - France 19932
 - Italy 11370
 - Portugal 4038
 - Chile 3630

Code:

top_countries = df['country'].value_counts().head(5)
print("Top 5 countries with the most wine reviews:")
print(top_countries)

2. Most common wine varieties

•	Pinot Noir	13272
•	Chardonnay	11753
•	Cabernet Sauvignon	9472
•	Red Blend	8946
•	Bordeaux-style Red Blend	6915

Code:

common_varieties = df['variety'].value_counts().head(5)
print("\nMost common wine varieties:")
print(common_varieties)

3. Correlation between points and price = 0.4156511636427041

Code:

correlation = df['points'].corr(df['price'])
print("\nCorrelation between points and price:")
print(correlation)

4. Top 5 varieties with the highest average rating

•	Nebbiolo	90.251070
•	Grüner Veltliner	89.980669
•	Champagne Blend	89.663324
•	Riesling	89.450183
•	Pinot Noir	89.411468

Code:

top_varieties_rating = df.groupby('variety')['points'].mean().nlargest(5)
print("\ntop 5 varieties with the highest average rating:")
print(top varieties rating)

- 5. Top 10 wineries with the most wine varieties
 - Testarossa 217Williams Selyem 203

 Louis Latour 199 Georges Duboeuf 195 Chateau Ste. Michelle 187 Wines & Winemakers 181 **DFJ Vinhos** 158 Columbia Crest 144 Concha y Toro 135 Kendall-Jackson 128

Code:

top_wineries_varieties = df['winery'].value_counts().nlargest(10)
print("\ntop 10 wineries with the most wine varieties:")
print(top_wineries_varieties)

6. Average rating by province

Südburgenland 93.000000 Tokaji 92.000000 Mittelrhein 92.000000 Puente Alto 91.733333 Wachau 91.723724 England 91.581081 Santa Cruz 91.500000 Kamptal 91.466830 Beira Atlantico 91.333333 Traisental 91.255814

Code:

average_rating_by_province =
df.groupby('province')['points'].mean().sort_values(ascending=False).head(10)
print("\naverage rating by province:")
print(average_rating_by_province)