

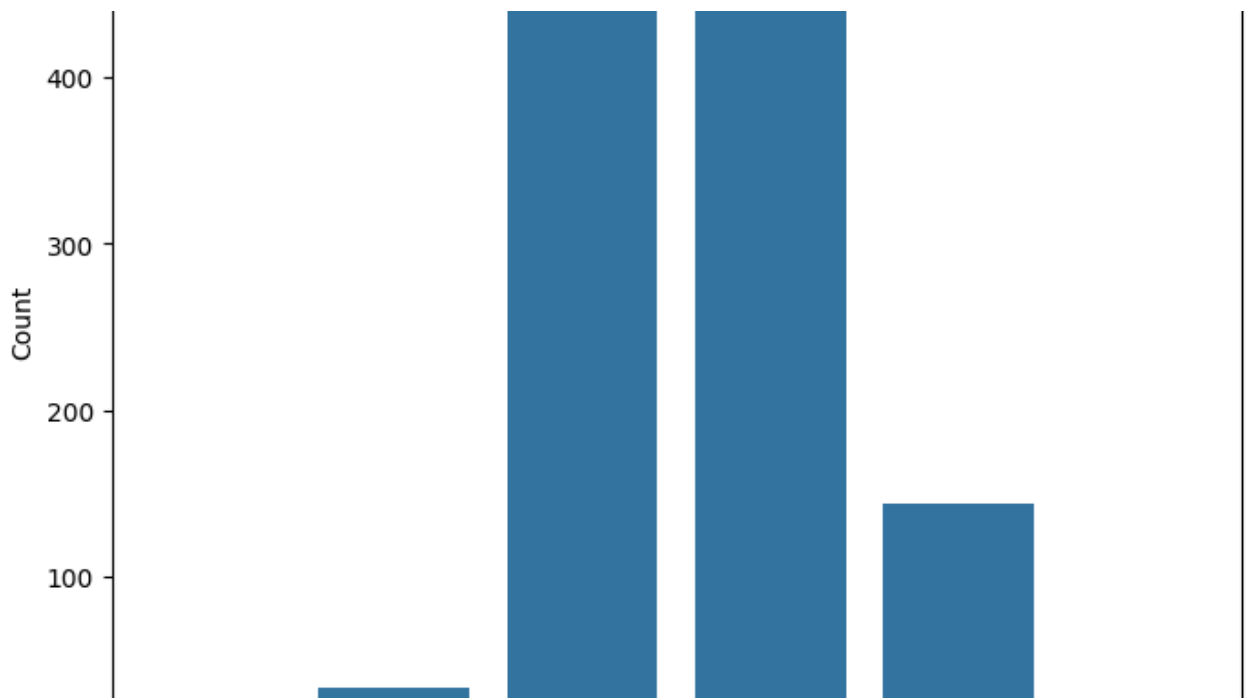
Start coding or [generate](#) with AI.

```
import matplotlib.pyplot as plt
import seaborn as sns

# Distribution of quality
plt.figure(figsize=(8, 6))
sns.countplot(x='quality', data=df)
plt.title('Distribution of Wine Quality')
plt.xlabel('Quality')
plt.ylabel('Count')
plt.show()

# Distribution of alcohol
plt.figure(figsize=(8, 6))
sns.histplot(df['alcohol'], kde=True)
plt.title('Distribution of Alcohol Content')
plt.xlabel('Alcohol')
plt.ylabel('Frequency')
plt.show()

# Relationship between alcohol and quality
plt.figure(figsize=(8, 6))
sns.boxplot(x='quality', y='alcohol', data=df)
plt.title('Alcohol Content vs. Quality')
plt.xlabel('Quality')
plt.ylabel('Alcohol')
plt.show()
```

```
display(df.describe())
```

	fixed acidity	volatile acidity	citric acid	Quality residual sugar	chlorides	free sulfur dioxide	total sulfur dioxide
count	1143.000000	1143.000000	1143.000000	1143.000000	1143.000000	1143.000000	1143.000000
mean	8.311111	0.531339	0.268364	2.532152	0.086933	15.615486	45.914698
std	1.747595	0.179633	0.196686	1.355917	0.047267	10.250486	32.782130
min	4.600000	0.120000	0.000000	0.900000	0.012000	1.000000	6.000000
25%	7.100000	0.392500	0.090000	1.900000	0.070000	7.000000	21.000000
50%	7.900000	0.520000	0.250000	2.200000	0.079000	13.000000	37.000000
75%	9.100000	0.640000	0.420000	2.600000	0.090000	21.000000	61.000000
max	15.900000	1.580000	1.000000	15.500000	0.611000	68.000000	289.000000

```
display(df.info())
```

