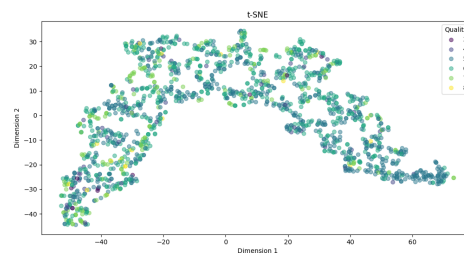
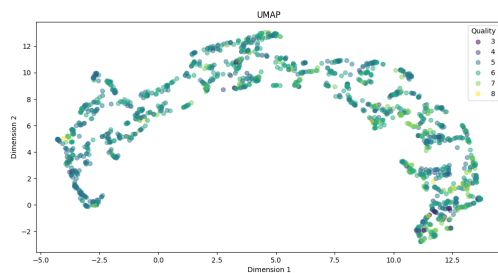
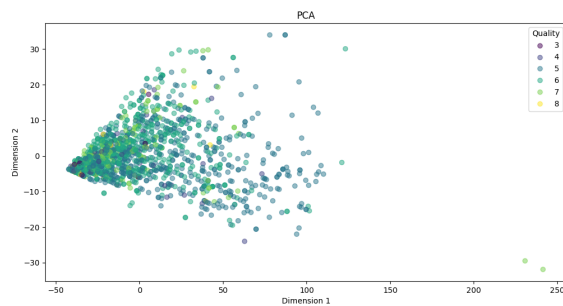


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Hypothesis:

Null Hypothesis (H0): There is no significant correlation between alcohol content and wine quality.

Alternative Hypothesis (H1): There is a significant correlation between alcohol content and wine quality.

Statistical Test: Pearson correlation coefficient was used to measure the strength and direction of the linear relationship between alcohol content and wine quality

Conclusions: The Pearson Correlation Coefficient is 0.4761663240011359, and the p-value is $2.8314769747764374e-91$. Since the p-value is below the significance level of 0.05, we reject the null hypothesis. Therefore, there is evidence of a significant correlation between alcohol content and wine quality.