Homework 5 :

PCA   t-SNE   UMAP
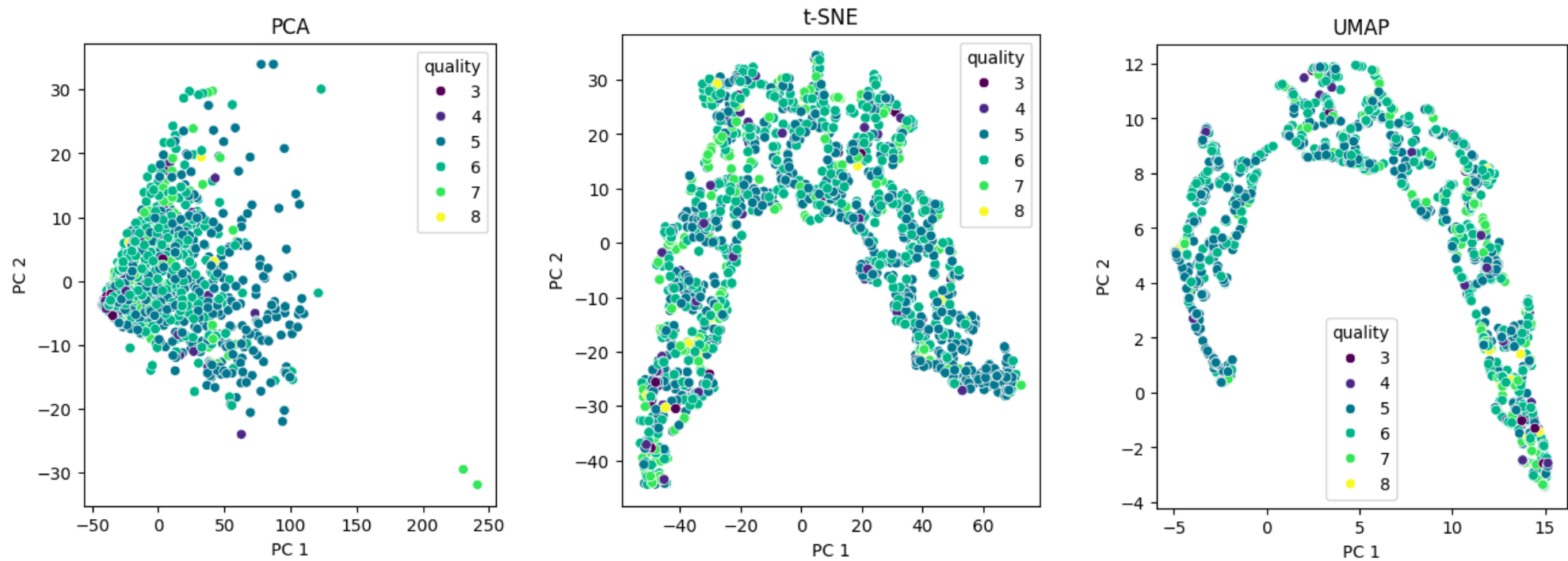
Hypothesis : To compare alcohol content in wines with different quality ratings
Why choosing T-test :   T-test is appropriate for comparing means of high vs low quality wine.
                        Alcohol content (the variable of interest) is continuous so t-test is a good choice for looking at means for such data
                        The assumption of normal distribution and equal variances are verified and T-test is simple to interpret.

t-statistic: 17.822763607394528
p-value: 6.016774226316707e-65
Conclusion: Alcohol content contributes significantly to wine quality.

Harshvardhan Joshi, M.N. 23162173, IdM: og52yvov