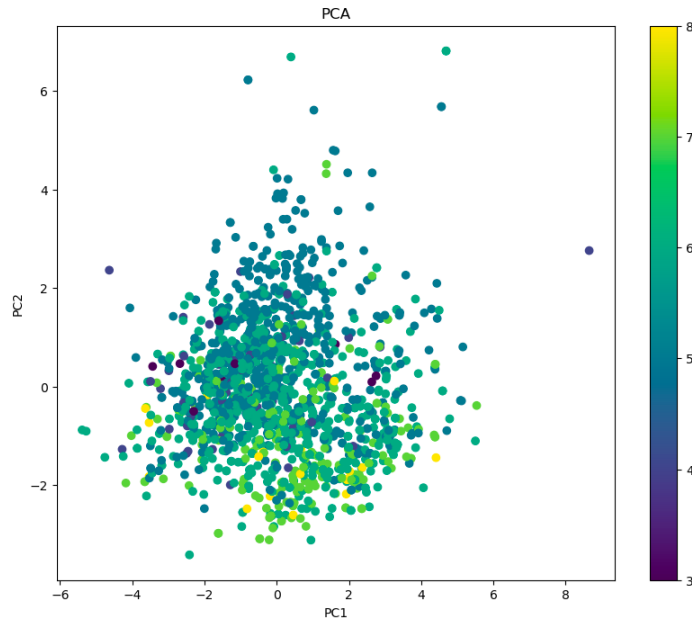
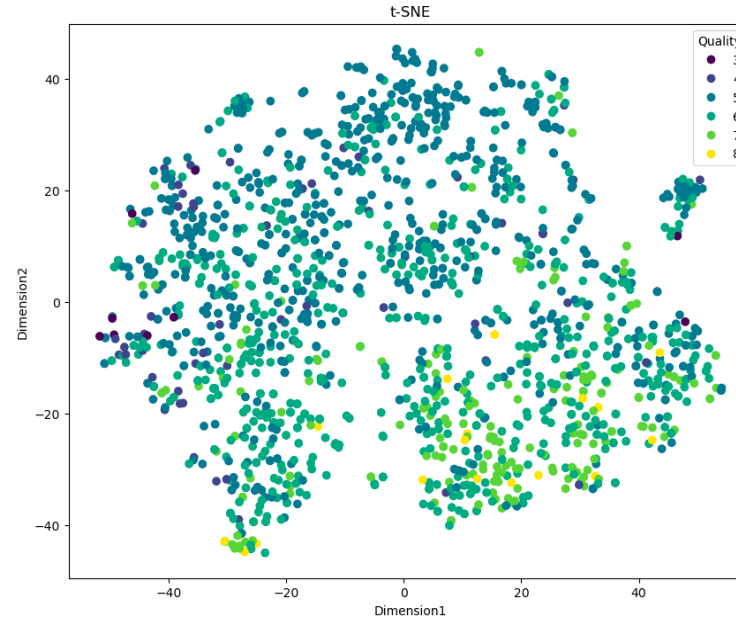


Homework 5

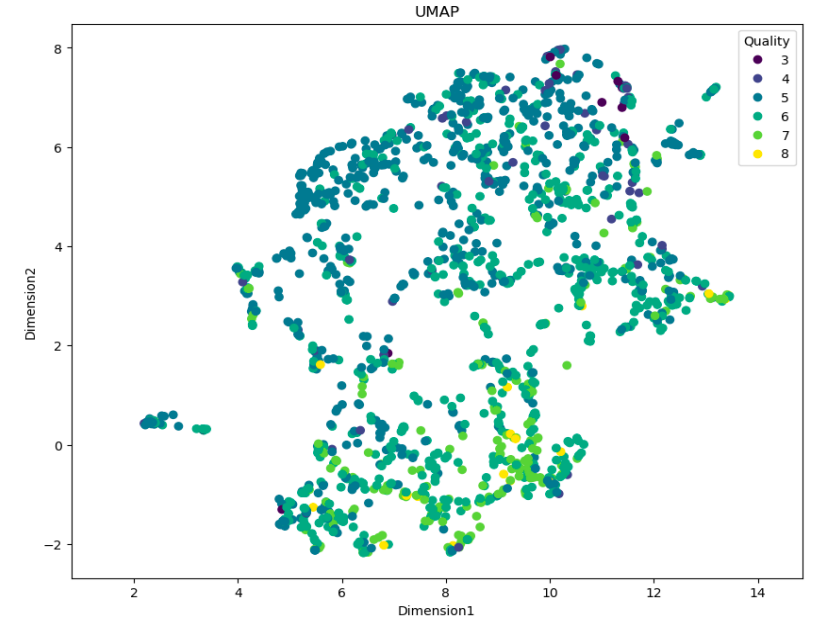
PCA



t-SNE



UMAP



H0: Null hypothesis that the **total sulfur dioxide** does not affect significantly to the **quality** of the wine.

Why: Test **ANOVA** is used because it is suitable for comparing means of three or more groups (in this case **quality levels**)

→ p-value = 7.5572196200435755e-25

→ Conclusion: Reject the null hypothesis. **total sulfur dioxide** does significantly affect wine **quality**.