In wine project 1st we apply SVM and random forest without data preprocessing we got bad results in 1st class accuracy

In wine project 2nd we removed the outliers then scaled the data then apply data resampling using SMOTE as the 1st class is so small

We applied 3 algorithms (SVM, random forest and logistic regression)

The prediction results of the SVM where very biased towards the 2nd class

A screenshot of a computer screen

AI-generated content may be incorrect.

The prediction of the random forest was the best of the 3

A screenshot of a computer screen

AI-generated content may be incorrect.

The prediction of logistic regression was not biased much and better than SVM

A screenshot of a computer

AI-generated content may be incorrect.

This is the results without removing the outliers

SVM:

A screenshot of a computer screen

AI-generated content may be incorrect.

Random Forest:

A screenshot of a computer screen

AI-generated content may be incorrect.

Logistic regression:

A screenshot of a computer screen

AI-generated content may be incorrect.

Overall the best result is the random forest after removing the outliers and apply data resampling