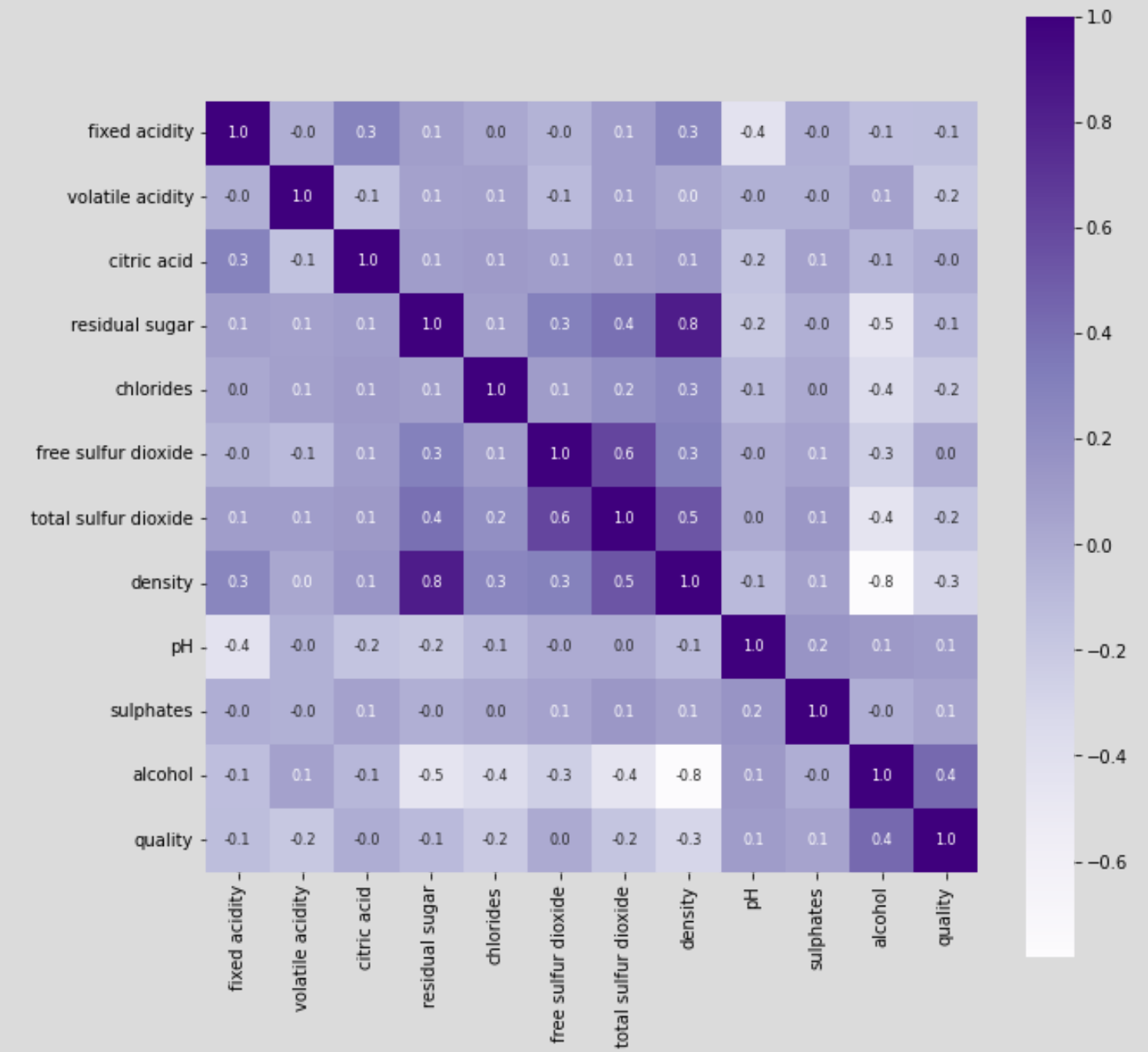
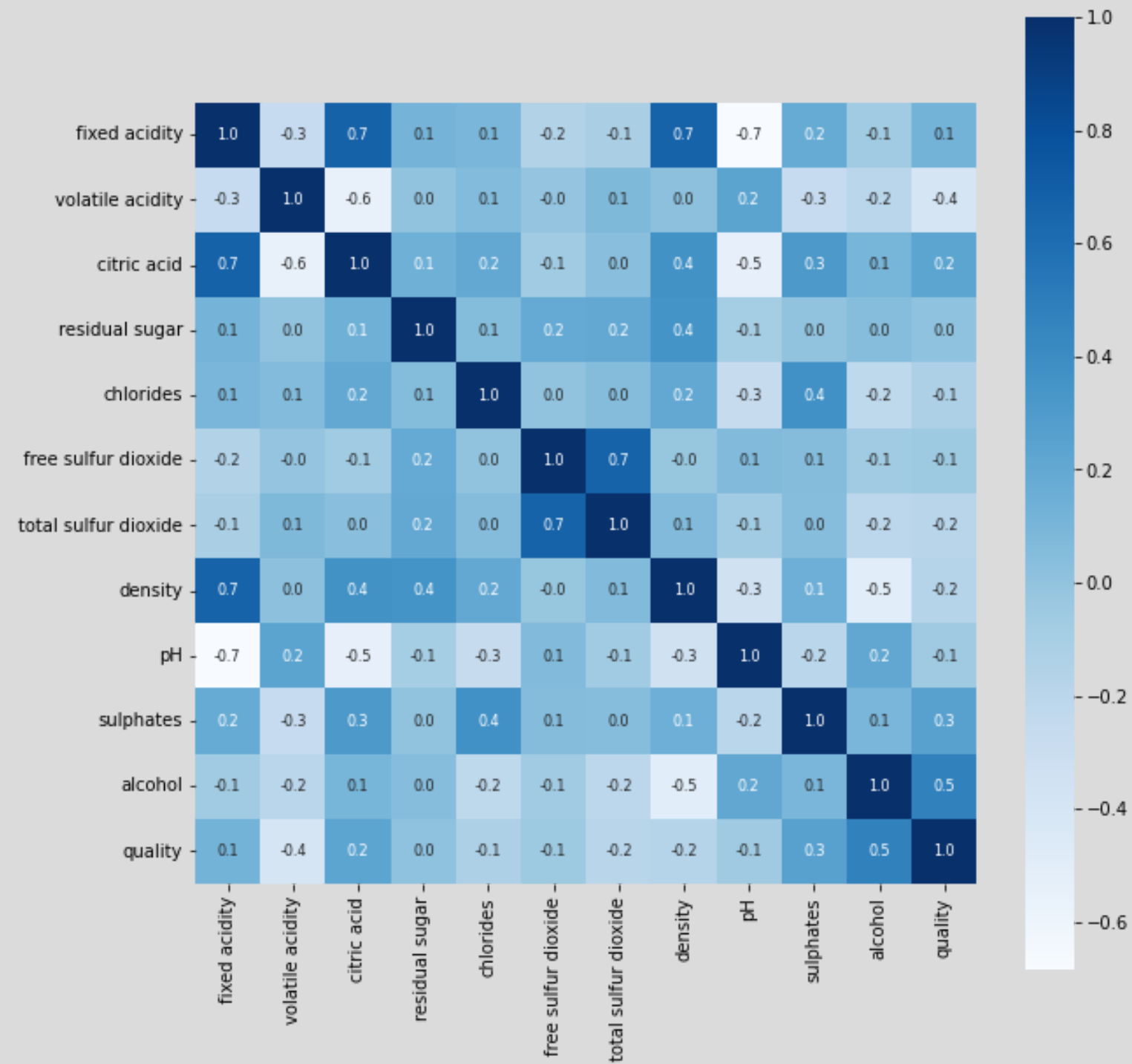


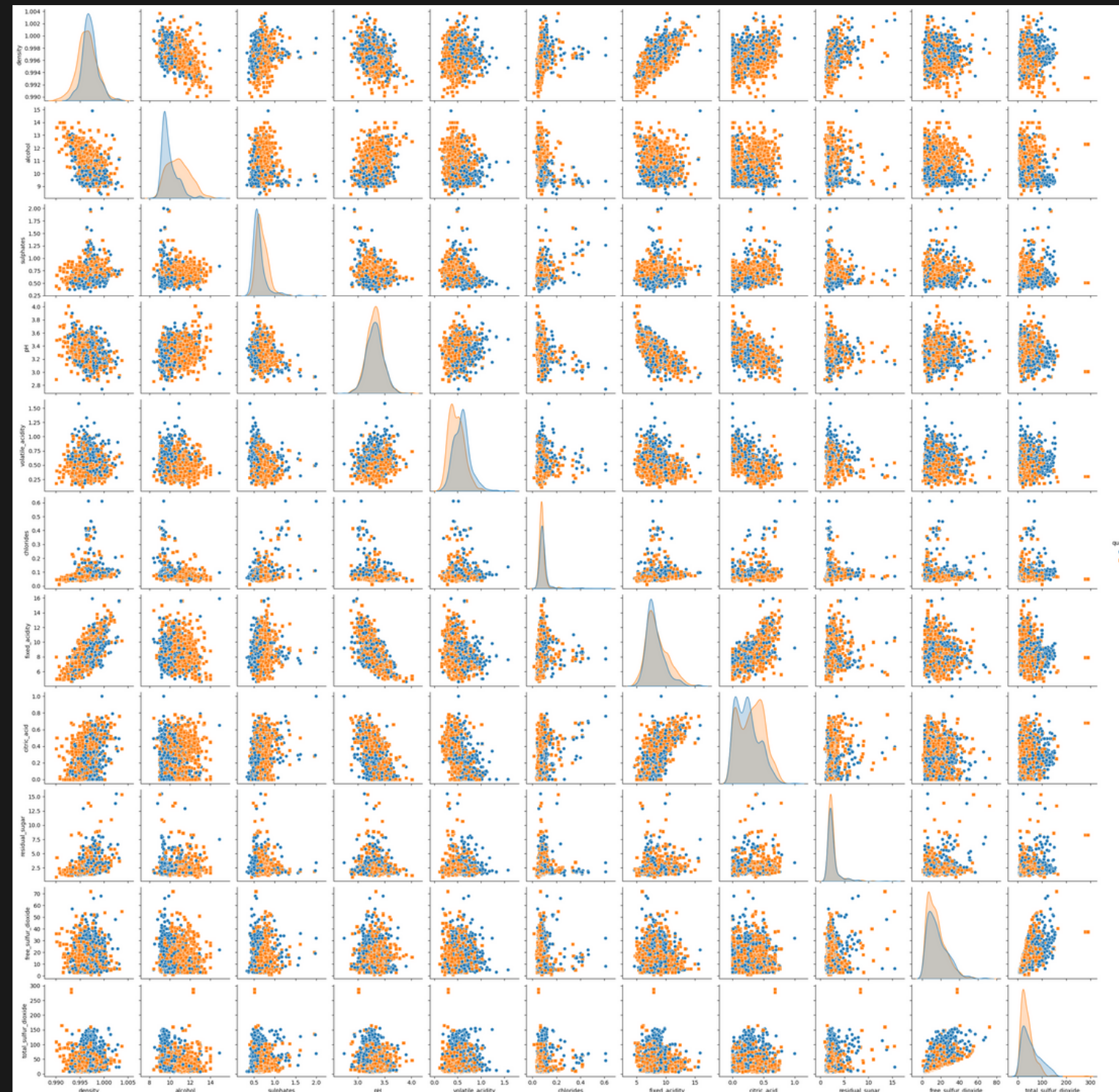
RESULTS

WINE QUALITY PREDICTION

COVARIANCE MATRIX



PAIR PLOT



LOGISTIC REGRESSION

Red Wine

Confusion Matrix:

```
[[110  47]  
 [ 49 114]]
```

Accuracy: 0.7

Score: 0.7

RMSE: 0.5477225575051661

White Wine

Confusion Matrix:

```
[[159 162]  
 [103 556]]
```

Accuracy: 0.7295918367346939

Score: 0.7295918367346939

RMSE: 0.5200078492343227

DECISION TREE

Red Wine

Confusion Matrix:

```
[[106  38]
 [ 71 105]]
```

Accuracy: 0.659375

Score: 0.659375

RMSE: 0.5836308764964376

White Wine

Confusion Matrix:

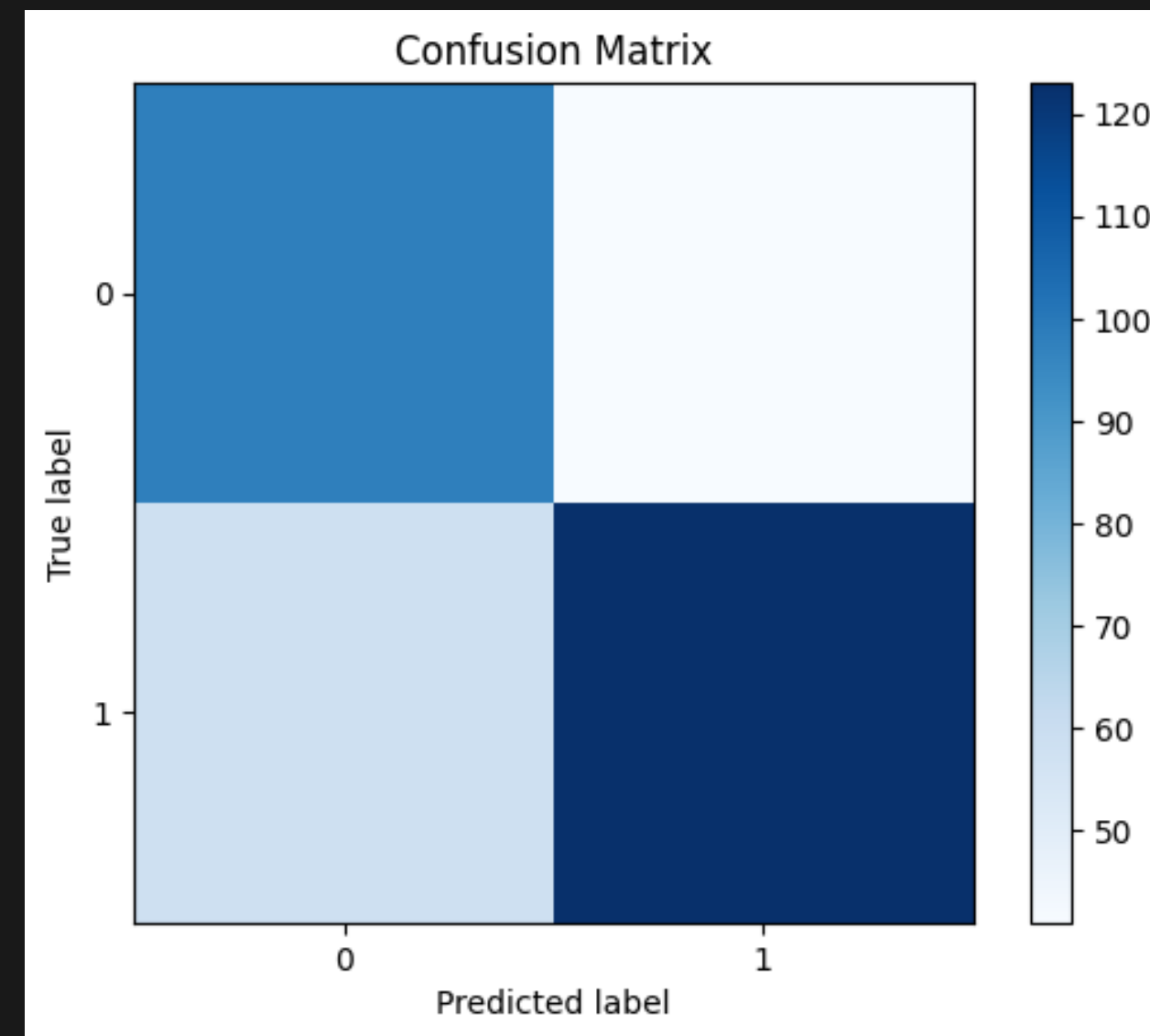
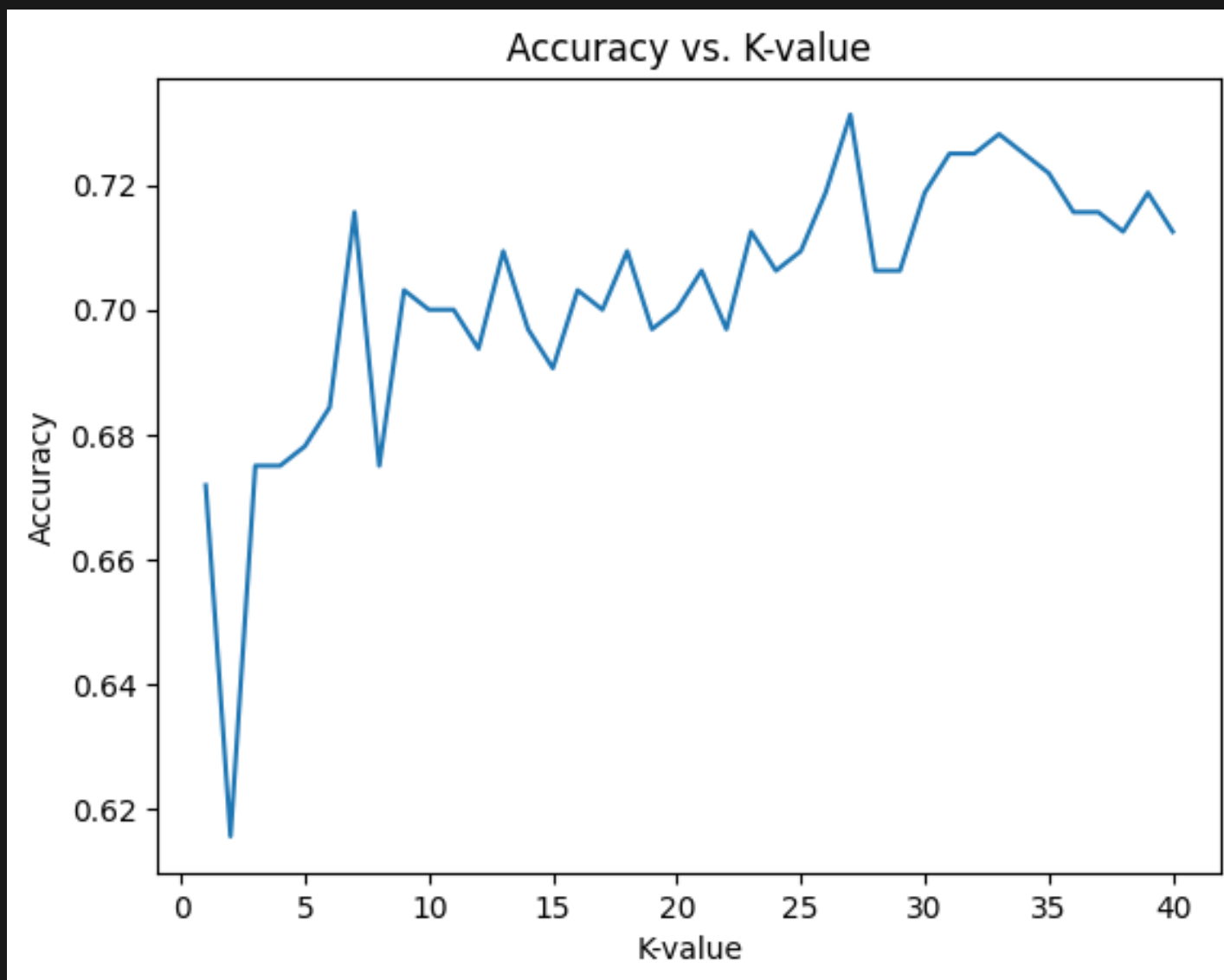
```
[[ 382  303]
 [ 258 1017]]
```

Accuracy: 0.7137755102040816

Score: 0.7137755102040816

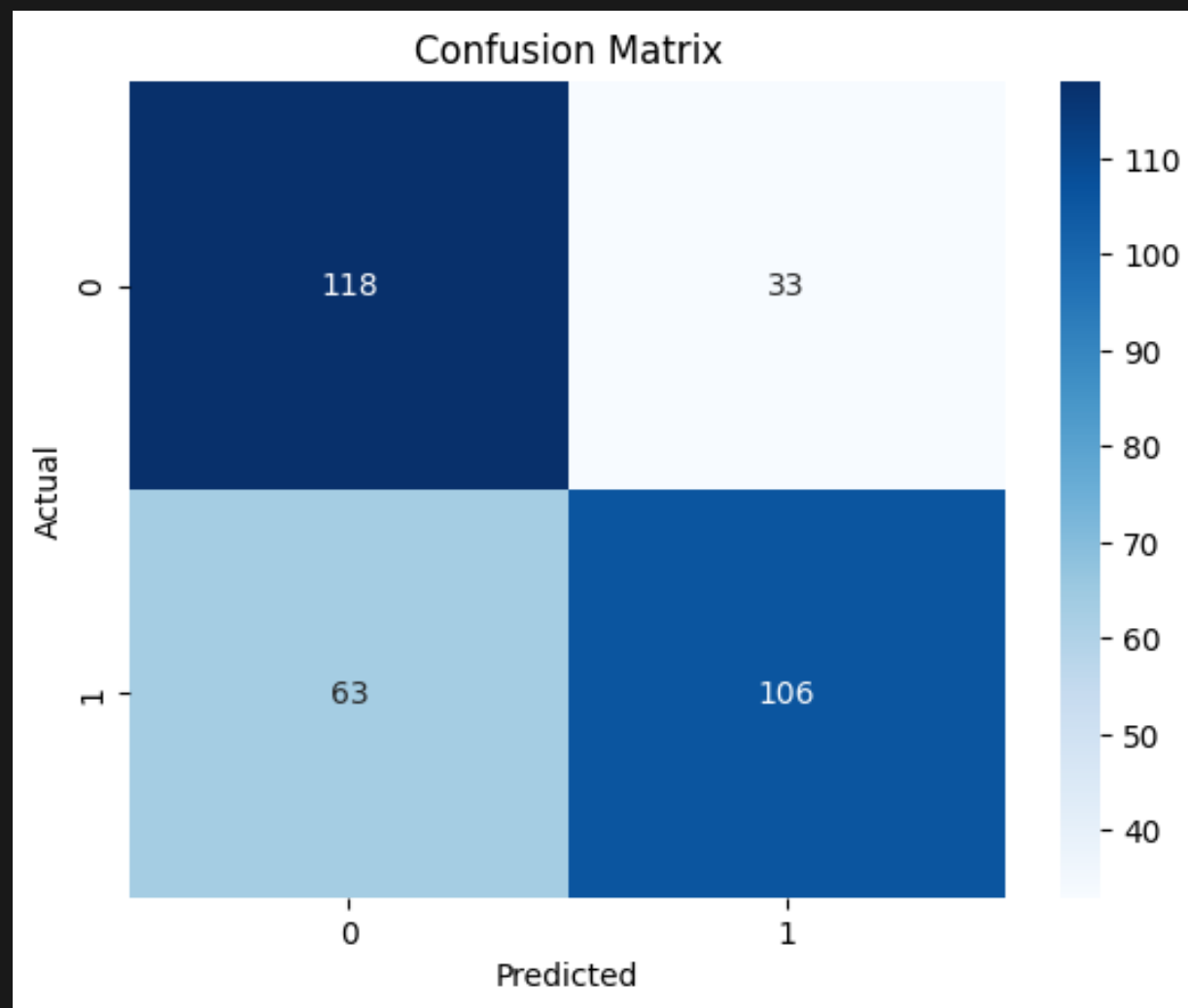
RMSE: 0.5349995231735429

KNN

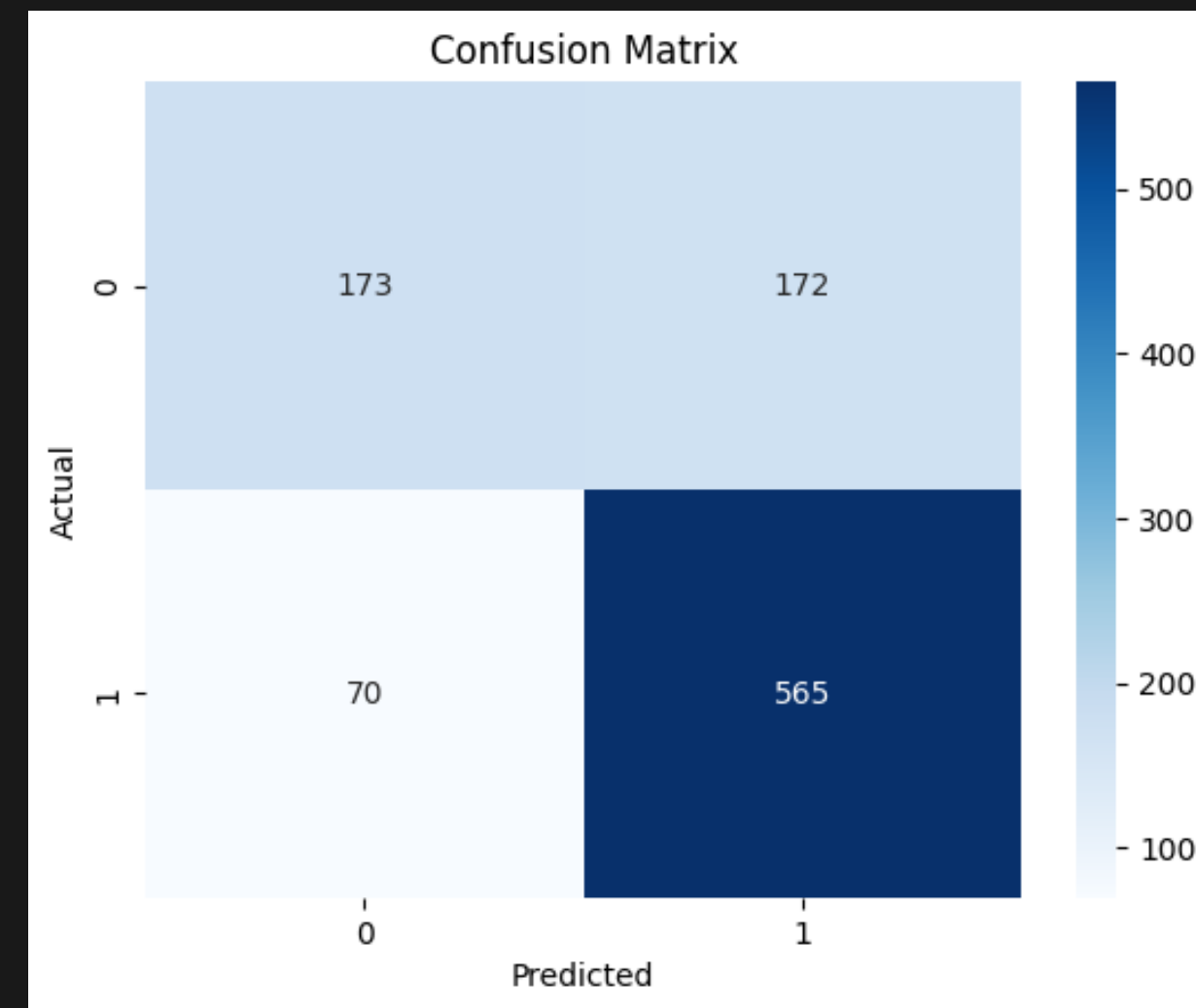


Accuracy: 70%

SVM

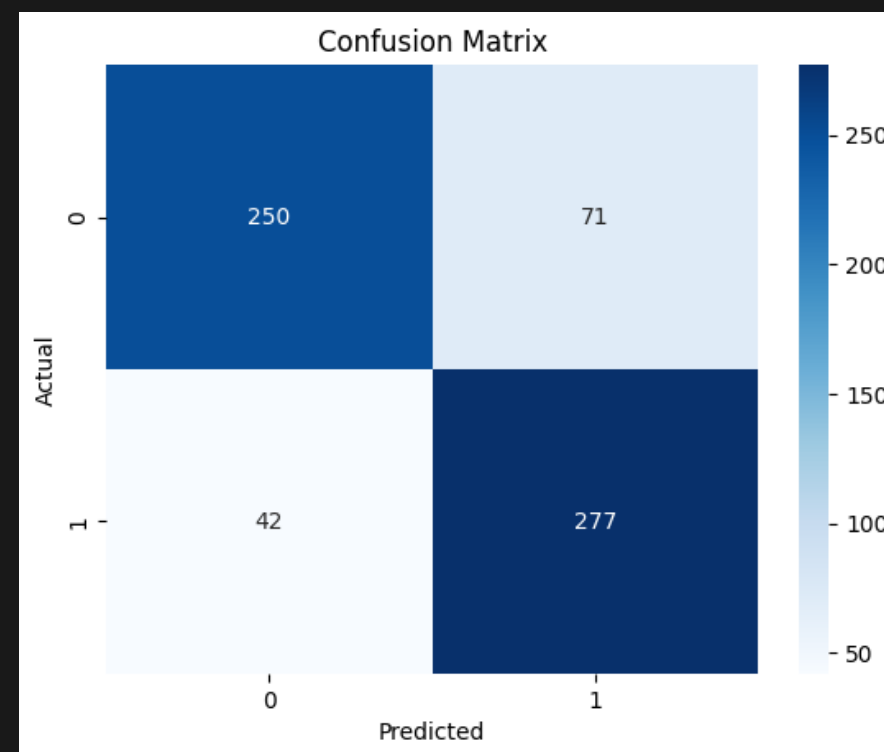
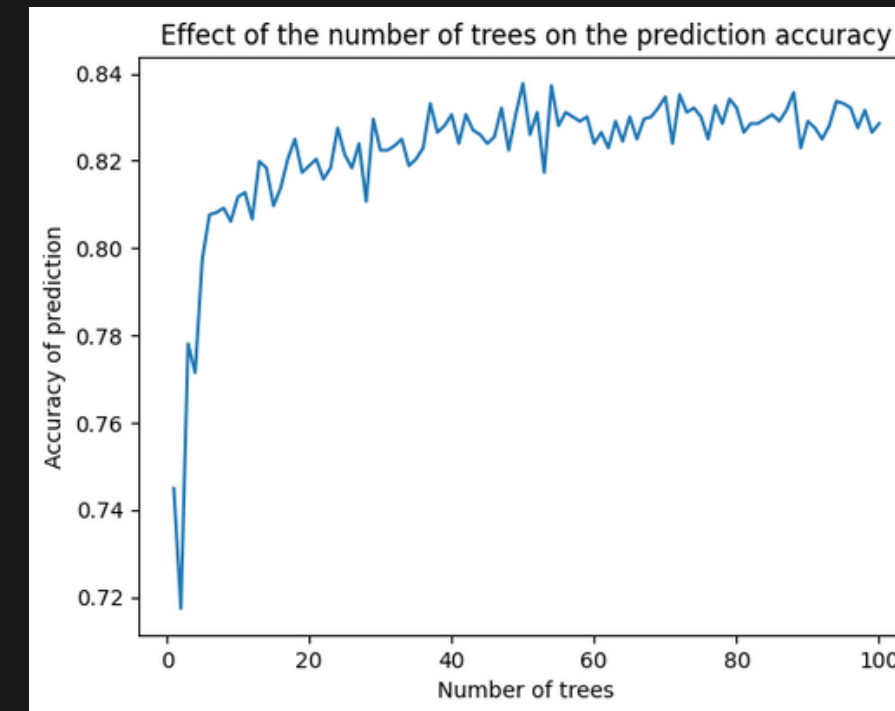
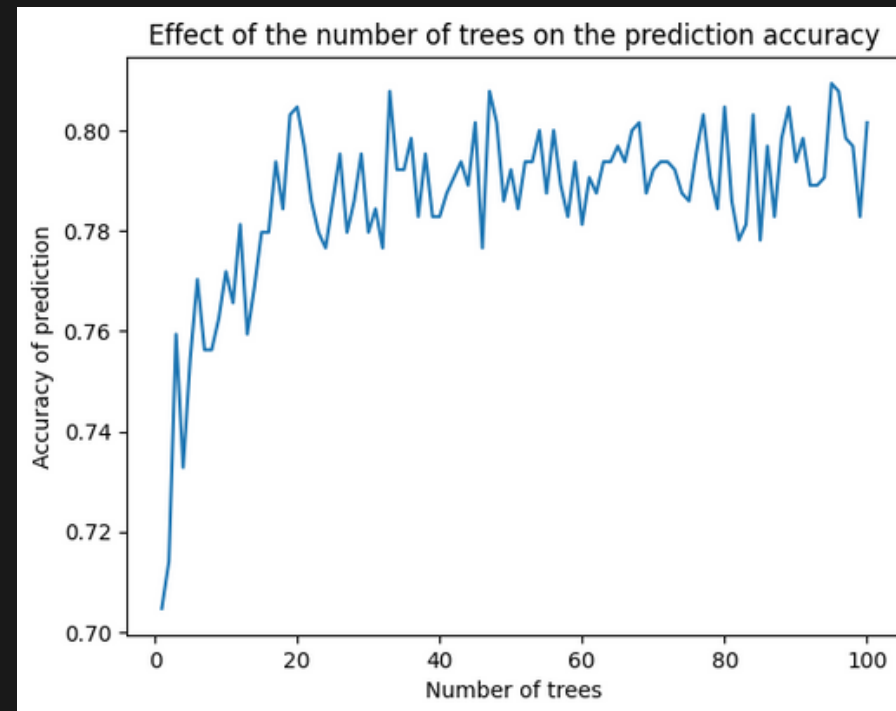


Red Wine
Accuracy : 71%

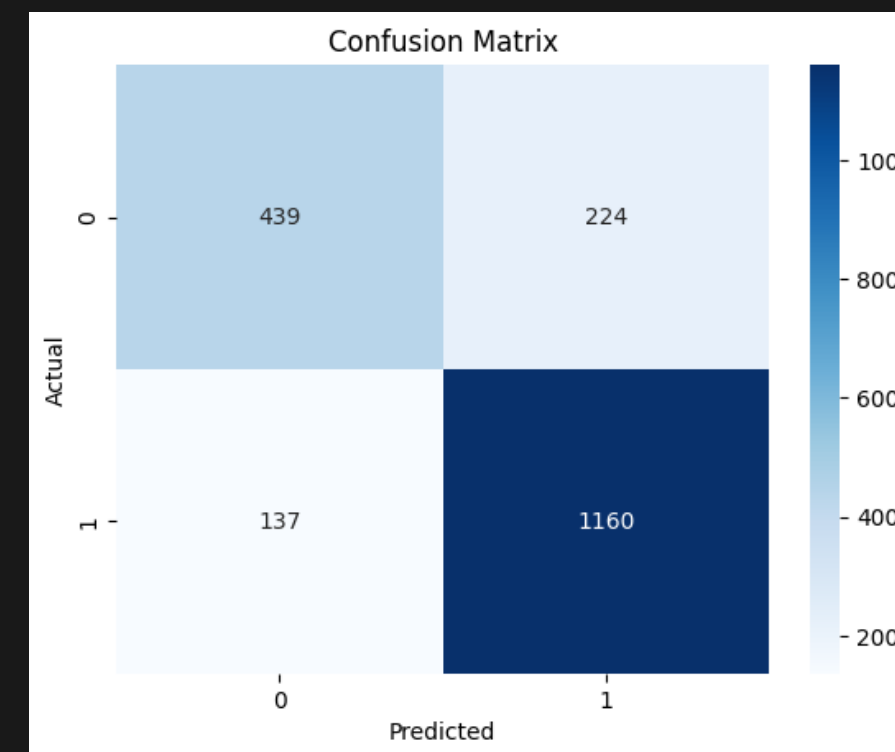


White Wine
Accuracy : 73%

RANDOM FOREST

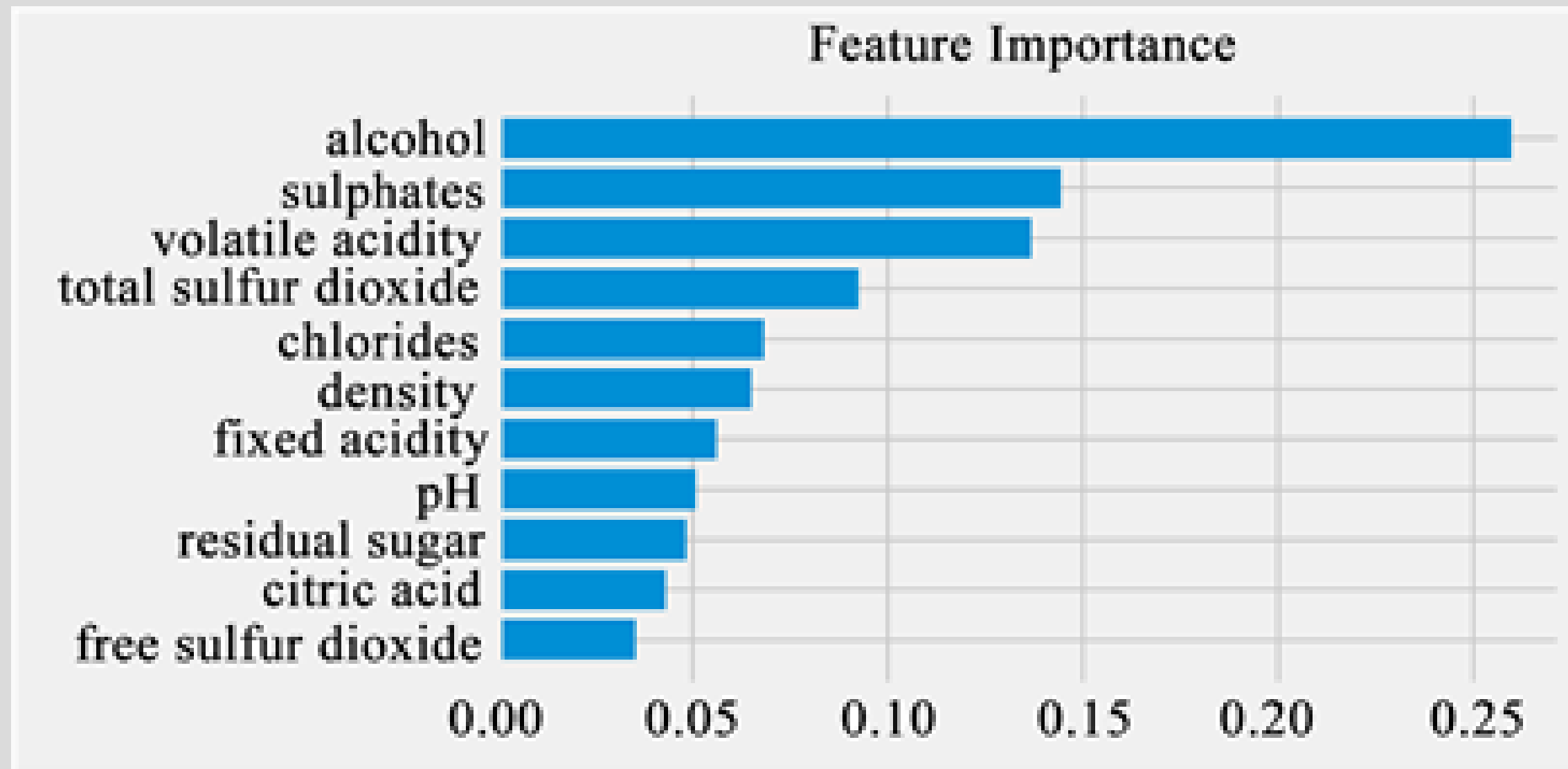


Red Wine
Accuracy : 80%



White Wine
Accuracy : 82%

FEATURE IMPORTANCE



THE END