Project-Performance

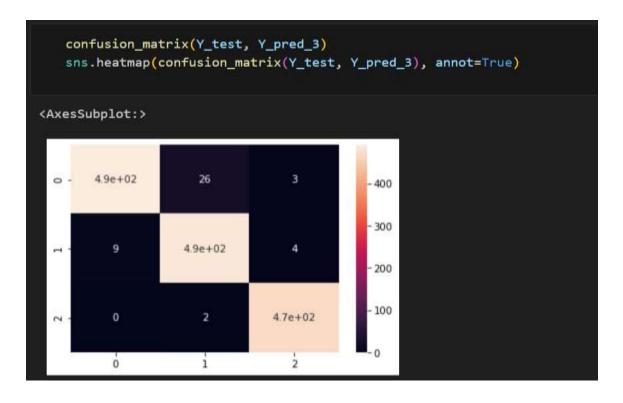
Model Performance Test

Date	15 November 2023
Team ID	Team-591794
Project Name	USING MACHINE LEARNING TO PREDICT AND MONITER FETAL HEALTH
Maximum Marks	10 Marks

Metrics:

Accuracy-Score:

Confusion Matrix:



Classification-Report:

```
print(classification_report(Y_test, Y_pred_3))
            precision recall f1-score support
                0.98
                       0.94
                                           528
       1.0
                                 0.96
                       0.97
                                0.96
       2.0
                0.95
                                           500
                0.99
                        1.00
                                 0.99
                                           470
       3.0
                                  0.97
                                          1490
   accuracy
                8.97
                         8.97
                                  8.97
                                          1490
  macro avg
weighted avg
                0.97
                         0.97
                                  0.97
                                          1498
```

Hyper-Parameter Tuning:

```
params = {
    'max_depth':[8,8,10],
    'min_samples_leaf':[2,3],
    'n_estimators':[80,90,100,110],
    'max_features':[2,3,4,5]
}
Pyth
```

Validation-Method:

Cross-Fold Validation with 2 folds