Project Development Phase Model Performance Test

Team ID	PNT2022TMID24632	
Project Name	Project - Detecting Parkinson's Disease using Machine Learning.	
Maximum Marks	10 Marks	

ML Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Parameter	Values	Screenshot
1.	Metrics	Classification Model: Confusion Matrix, Accuracy Score & Classification Report	- Model Evaluation [39] cmf = confusion_natrix(testY,preds) cmf array([[14, 1], [3, 12]) □ plt.fignre(figesiz=(5,5)) cml.bastmap(cmf , annoteTrue , cmap="coolbastw" , charmfalse) plt.show() □ 18 □ 1 □ 10 □ 18 □ 10

BRIEF DETAILED SCREENSHOTS:

METRICS:

```
[32] acc = metrics.accuracy_score(testY,preds)
     0.86666666666667
[33] cr=classification report(testY,preds)
     print(cr)
                              recall f1-score
                  precision
                                                 support
                      0.82
                               0.93
                                         0.87
                      0.92
                               0.80
                                         0.86
        accuracy
                                          0.87
                                                      30
                      0.87 0.87
                                         0.87
                                                      30
        macro avg
                      0.87
                                0.87
                                          0.87
                                                      30
     weighted avg
[34] indexes = np.random.randint(0,30,25)
     indexes
     array([18, 15, 15, 16, 9, 20, 5, 5, 19, 22, 4, 23, 10, 6, 25, 10, 20, 0, 2, 22, 28, 25, 19, 6, 23])
```

TUNE THE MODEL: