Project Development Phase Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID00199
Project Name	Project - Detection of Parkinson's Disease
Maximum Marks	10 Marks

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	In [17]: from sklearn.metrics import accuracy_score accuracy_score(y_test,preds) Out[17]: 0.76666666666667 In [18]: from sklearn import metrics metrics.confusion_matrix(y_test,preds) Out[18]: array([[13, 2], [5, 10]]) In [39]: from sklearn.metrics import classification_report print(classification_report(y_test, preds)) Precision recall f1-score support 0.72 0.87 0.79 15 1 0.83 0.67 0.74 15 accuracy macro avg 0.78 0.77 30 weighted avg 0.78 0.77 0.76 30 weighted avg 0.78 0.77 0.76 30	
2.	Tune the Model	Hyperparameter Tuning Validation Method	<pre>In [14]: from sklearn.ensemble import RandomForestClassifier classifier = RandomForestClassifier(n_estimators=100) classifier.fit(X_train,y_train) Out[14]: RandomForestClassifier()</pre>	