

## Project Development Phase Model Performance Test

Date	10 November 2022	
Team ID	PNT2022TMID02435	
Project Name	Project – Detection of Parkinson's disease using machine learning	
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	Accuracy Score-  Classification Report —  Cm = confus print(cm) (tn, fp, fn  [14 1 4 1  0.8333333  from sklean print(class	predictions = model.predict(X_test)  cm = confusion_matrix(y_test, predictions).flatten() print(cm) (tn, fp, fn, tp) = cm  [14  1  4  11]  accuracy = (tp + tn) / float(cm.sum()) print(accuracy)  [14  1  4  11] 0.8333333333333333333333333333333333333
2.	Tune the Model	Hyperparameter Tuning -	<pre>model = RandomForestClassifier(n_estimators=100) model.fit(X_train, y_train)</pre>
		Validation Method -	<pre>model = RandomForestClassifier() rf_random = RandomizedSearchCV(estimator = model,</pre>



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