

Project Development Phase Model Performance Test

Date	17th November 2022
Team ID	PNT2022TMID28255
Project Name	Project – Detecting 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	Classification Model: Confusion Matrix, F1 Score, Accuracy Score & Classification Report	<p>The screenshot shows a Jupyter Notebook cell with the following code and output:</p> <pre> # Confusion matrix cm = confusion_matrix(y_test, y_pred) # F1 score f1 = f1_score(y_test, y_pred) # Accuracy score acc = accuracy_score(y_test, y_pred) # Classification report report = classification_report(y_test, y_pred) </pre> <p>The output displays the Confusion Matrix, F1 Score, Accuracy Score, and a detailed Classification Report.</p>
2.	Tune the Model	Data mining - XGBoost Classifier	<p>The screenshot shows a Jupyter Notebook cell with the following code and output:</p> <pre> # XGBClassifier - Supervised Machine Learning xgb = XGBClassifier() # Assessing the model using metrics xgb.fit(X_train, y_train) y_pred = xgb.predict(X_test) # Confusion matrix cm = confusion_matrix(y_test, y_pred) </pre> <p>The output displays the XGBClassifier object, the model's performance metrics, and the Confusion Matrix.</p>