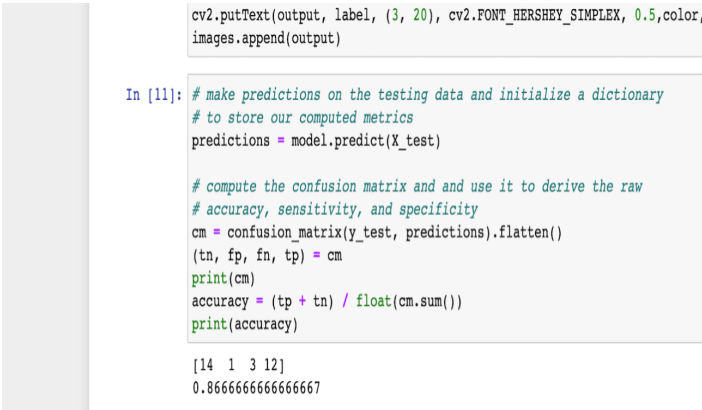



Project Development Phase Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID24541
Project Name	Detecting Parkinsons 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	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	 <pre> cv2.putText(output, label, (3, 20), cv2.FONT_HERSHEY_SIMPLEX, 0.5,color, images.append(output) In [11]: # make predictions on the testing data and initialize a dictionary # to store our computed metrics predictions = model.predict(X_test) # compute the confusion matrix and use it to derive the raw # accuracy, sensitivity, and specificity cm = confusion_matrix(y_test, predictions).flatten() (tn, fp, fn, tp) = cm print(cm) accuracy = (tp + tn) / float(cm.sum()) print(accuracy) [14 1 3 12] 0.8666666666666667 </pre>
2.	Tune the Model	Hyperparameter Tuning - Validation Method -	Model Building  <pre> In [7]: print('[INFO] training the model') model = RandomForestClassifier(n_estimators=100) model.fit(X_train, y_train) [INFO] training the model Out[7]: RandomForestClassifier() In [8]: testingPaths = list(paths.list_images(testingPath)) idxs = np.arange(0, len(testingPaths)) idxs = np.random.choice(idxs, size=(25,), replace=False) images = [] </pre>