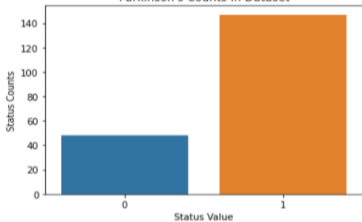


Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID28122
Project Name	Project - 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.	Model Summary	Detects whether a person is affected by Parkinson's disease (PD) or not based on speech recordings of patients	<pre>12 prediction = model.predict(std_data) 13 print(prediction) 14 15 16 if (prediction[0] == 0): 17 print("The Person does not have Parkinsons Disease") 18 19 else: 20 print("The Person has Parkinsons")</pre> <p>[0] The Person does not have Parkinsons Disease /usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning "X does not have valid feature names, but"</p>						
	Accuracy	Training Accuracy – 92% Validation Accuracy -89%	<pre>1 # accuracy score on training data 2 X_train_prediction = model.predict(X_train) 3 training_data_accuracy = accuracy_score(Y_train, X_train_prediction) [31] 1 print('Accuracy score of training data : ', training_data_accuracy) Accuracy score of training data : 0.9279141184294478 1 # accuracy score on training data 2 X_test_prediction = model.predict(X_test) 3 test_data_accuracy = accuracy_score(Y_test, X_test_prediction) [33] 1 print('Accuracy score of test data : ', test_data_accuracy) Accuracy score of test data : 0.8963414634146342</pre> <p>Parkinson's Counts in Dataset</p>  <table border="1"><thead><tr><th>Status Value</th><th>Status Counts</th></tr></thead><tbody><tr><td>0</td><td>50</td></tr><tr><td>1</td><td>140</td></tr></tbody></table>	Status Value	Status Counts	0	50	1	140
Status Value	Status Counts								
0	50								
1	140								

			 <pre> 1 input_data = (197.07600,206.89600,192.05500,0.00289,0.00001,0.0010 2 3 # changing input data to a numpy array 4 input_data_as_numpy_array = np.asarray(input_data) 5 6 # reshape the numpy array 7 input_data_resaped = input_data_as_numpy_array.reshape(1,-1) 8 9 # standardize the data 10 std_data = scaler.transform(input_data_resaped) 11 12 prediction = model.predict(std_data) 13 print(prediction) 14 15 16 if (prediction[0] == 0): 17 print("The Person does not have Parkinsons Disease") 18 19 else: 20 print("The Person has Parkinsons") </pre> <pre> [0] The Person does not have Parkinsons Disease /usr/local/lib/python3.7/dist-packages/sklearn/base.py:451: UserWarning "X does not have valid feature names, but" </pre>
3.	Confidence Score (Only Yolo Projects)	Class Detected - Confidence Score -	NA