Project Development Phase Model Performance Test

Date	8 November 2023-
Team ID	592309
Project Name	Mental Health Prediction Using ML
Maximum Marks	10 Marks

Model Performance Testing:

Project team shall fill the following information in model performance testing template.

S.No.	Paramet er	Values	Screenshot					
1.	1. Model Summar above results, it is clear that AdaBoost Classifier provides the best accuracy.		<pre>def model_test(X_train, X_test, y_train, y_test,model_name): model.fit(X_train,y_train) y_pred = model.predict(X_test) accuracy = accuracy_score(y_test,y_pred) print('====================================</pre>					
2.	Accuracy	Training Accuracy – 0.864 Validation Accuracy - 0.864	abc = AdaBoostClassifier(random_state=99) abc.fit(X_train,y_train) pred_abc = abc.predict(X_test) print('Accuracy of AdaBoost=',accuracy_score(y_test,pred_abc)) Accuracy of AdaBoost= 0.864					

3. Confiden ce Score	Class Detected	<pre>print(classification_report(y_test,pred_abc))</pre>				<pre>print(classification_report(y_test,pred_abc_tuned))</pre>					
			precision	recall	f1-score	support		precision	recall	f1-score	support
(Only	Confidence	a	0.90	0.82	0.86	186	0	0.96	0.72	0.82	195
Yolo	Score	0 1	0.83	0.91	0.87	186 189	1	0.76	0.97	0.85	180
Projects)		accuracy			0.86	375	accuracy			0.84	375
1 Tojects)		macro avg	0.87	0.86	0.86	375 375	macro avg	0.86	0.84	0.84	375
		weighted avg		0.86	0.86	375	weighted avg	0.87	0.84	0.84	375