## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID36582
Project Name	Exploratory Analysis of Rainfall Data in India for Agriculture
Maximum Marks	10 Marks

## **Model Performance Testing:**

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

etrics	Classification Model: Confusion Matrix - Accuracy Score- Classification Report -	print(confusion print(accuracy_ print(classific	matrix(y_ score(y te	test,y_pr st,y pred	))	
	Classification Report -		<pre>y_pred = cat.predict(X_test) print(confusion_matrix(y_test,y_pred)) print(accuracy_score(y_test,y_pred)) print(classification_report(y_test,y_pred))</pre>			
Classification Report	Classification Report -	[[21510 1207] [ 2795 3580]] 0.8624364086346		11	£1	
		pi	recision	Lecall	T1-score	support
		9	0.89	0.95	0.91	22717
	I	1	0.75	0.56	0.64	6375
		accuracy	74203250	1647-11500		29092
						29092
		weighted avg	0.85	0.86	0.85	29092
ine the odel	Hyperparameter Tuning –	{'learning_rate': 0.1, 'max_depth': 8 0.8892227301457538				pth': 8}
	Validation Method -	Accuracy:83.11 % Standard Deviation:17.73 %				
		odel –	ne the hyperparameter Tuning   { 'learning 0.88922273    Accuracy:83	precision   0   8.89   1   0.75	precision recall	precision recall f1-score   0   0.89   0.95   0.91   1   0.75   0.56   0.64