## Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID18408
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.

S.No.	Parameter	Values	Screenshot
1.	Metrics  Classification Model: Confusion Matrix - Accuracy Score- Classification Report -	Confusion Matrix - Accuracy Score-	<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 -	[[21510 1207] [ 2795 3580]] 0.8624364086346762 precision recall f1-score support
		0 0.89 0.95 0.91 22717 1 0.75 0.56 0.64 6375	
		accuracy 0.86 29092 macro avg 0.82 0.75 0.78 29092 weighted avg 0.85 0.86 0.85 29092	
2.	Tune the Model Hyperparameter Tuning –  Validation Method -	Hyperparameter Tuning –	{'learning_rate': 0.1, 'max_depth': 8} 0.8892227301457538
		Accuracy:83.11 % Standard Deviation:17.73 %	