### Project Development Phase Model Performance Test

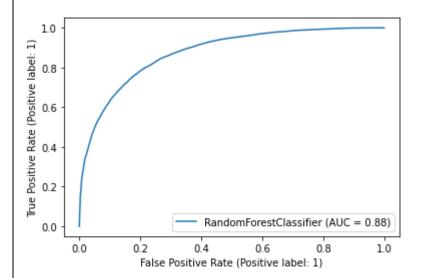
Date	10 NOvember 2023
Team ID	PNT2022TMID591569
Project Name	Project – Rainfall Prediction Using ML
Maximum Marks	10 Marks

#### **Model Performance Testing:**

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

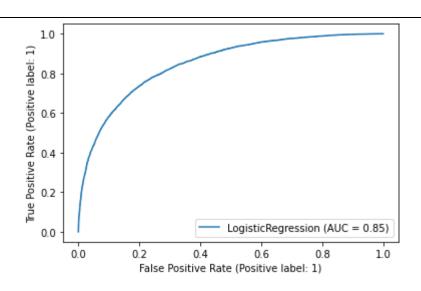
S.No.	Parameter	Values	Screenshot						
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score -	CatboosClassifier MODEL-						
		Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -	[[21520 1197] [ 2777 3598]] 0.8633988725422796						
			0 0.89 0.95 0.92 22717 1 0.75 0.56 0.64 6375						
			accuracy 0.86 29092 macro avg 0.82 0.76 0.78 29092 weighted avg 0.86 0.86 0.86 29092						
			1.0 - (I) 0.8 - (I) 0.6 -						
			0.0 0.2 0.4 0.6 0.8 1.0 False Positive Rate (Positive label: 1)						

# 



## 3. LogisticRegression()-

[[17649		-								
[ 1519	4856									
0.773580	365736	52849								
		prec	ision	re	ecall	f1-	score	suppo	ort	
	0		0.92		0.78		0.84	227	717	
	1		0.49		0.76		0.60	63	375	
accu	ıracy						0.77	290	<b>3</b> 92	
macro	avg		0.71		0.77		0.72	290	392	
wei	Ighted	avg		0.83		0.77		0.79	29	1092



### 4. GaussianNB()-

[[17078 5639] [ 1661 4714]]

0.7490719098033823

	precision	recall	f1-score	support
0	0.91 0.46	0.75 0.74	0.82 0.56	22717 6375
accuracy macro avg weighted avg	0.68 0.81	0.75 0.75	0.75 0.69 0.77	29092 29092 29092

