Project Development Phase Model Performance Test

Date	6 November 2023	
Team ID	Team-592514	
Project Name	Machine Learning Approach for Predicting the Rainfall	
Maximum Marks	10 Marks	

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	Regression Model:	
		R2 score- 0.694 The model explains approximately 69.4% of the variance in the target variable. ROC-AUC curve - For the Decision Tree model it shows that the model has an AUC of 0.694	ANC & ROC CUMB
		Classification Model:	All and the second seco
		Confusion Matrix – [[16518 2813] [2499 2912]]	Confusion Matrix
		Accuracy Score- 0.7849810039608762 Which shows that the model correctly predicted 78.5% of the cases.	o- 16518 2813
		Classification Report — precision recall f1-score support	2499 2912 Predictions
		The model is slightly better at predicting positive cases (0.87 precision and 0.85 recall) than negative cases (0.51 precision and 0.54 recall). This is likely because there are more positive cases in the dataset than negative cases.	Accuracy: 0.7849810039608762 Precision: 0.5080119739390738 Recall: 0.5331731657734246 importF1-score: 0.5202885482416592 pickle AUC: 0.6943192402763972 # Assuming you have a Decision Tree model
2.	Tune the Model	Hyperparameter Tuning - none Validation Method - none	•