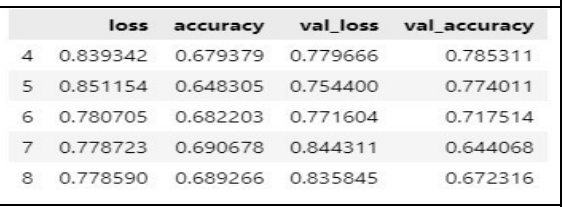
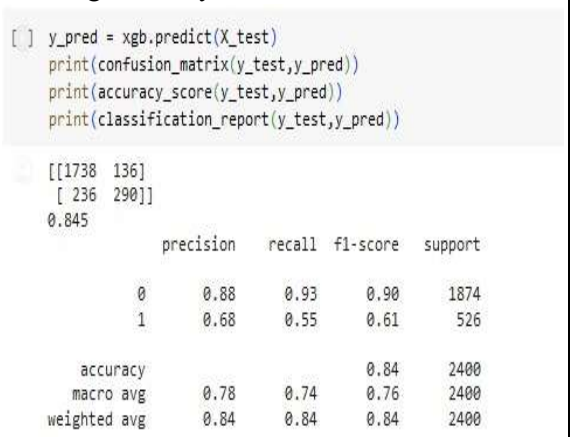
Project Development Phase
Model Performance Test

Date	22 November 2022
Team ID	Team -591871
Project Name	Prediction of rainfall using machine learning
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.	Model Summary	Total params: 811832 (3.10 MB) Trainable params: 811704 (3.10 MB) Non-trainable params: 128 (512.00 Byte)	''' Total params: 811832 (3.10 MB) Trainable params: 811704 (3.10 MB) Non-trainable params: 128 (512.00 Byte)
2.	Accuracy	Training Accuracy – 79% Validation Accuracy - 84%	
			Training accuracy: 

	loss	accuracy	val_loss	val_accuracy
4	0.839342	0.679379	0.779666	0.785311
5	0.851154	0.648305	0.754400	0.774011
6	0.780705	0.682203	0.771604	0.717514
7	0.778723	0.690678	0.844311	0.644068
8	0.778590	0.689266	0.835845	0.672316

```
[ ] y_pred = xgb.predict(X_test)
    print(confusion_matrix(y_test,y_pred))
    print(accuracy_score(y_test,y_pred))
    print(classification_report(y_test,y_pred))

    [[1738  136]
     [ 236  290]]
    0.845
                  precision    recall  f1-score   support

               0       0.88      0.93      0.90      1874
               1       0.68      0.55      0.61       526

        accuracy                           0.84      2400
       macro avg       0.78      0.74      0.76      2400
    weighted avg       0.84      0.84      0.84      2400
```