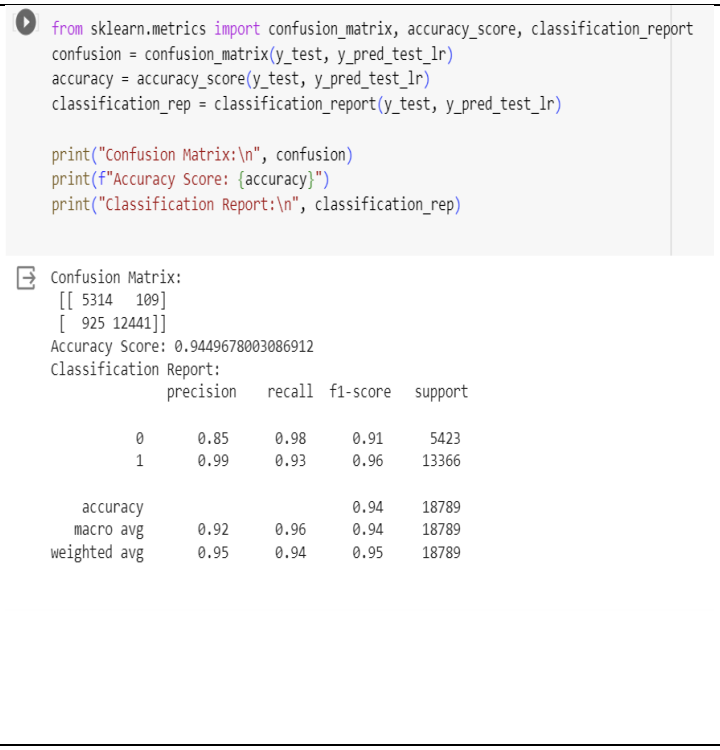
Project Development Phase
Model Performance Test

Date	9 November 2023
Team ID	Team -592381
Project Name	Project – Detect smoke with the help of IOT data and trigger a fire alarm
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 (Logistic Regression) :** Confusion Matrix - , Accuracy Score- & Classification Report -	

```
from sklearn.metrics import confusion_matrix, accuracy_score, classification_report
confusion = confusion_matrix(y_test, y_pred_test_lr)
accuracy = accuracy_score(y_test, y_pred_test_lr)
classification_rep = classification_report(y_test, y_pred_test_lr)

print("Confusion Matrix:\n", confusion)
print(f"Accuracy Score: {accuracy}")
print("Classification Report:\n", classification_rep)
```

```
Confusion Matrix:
 [[ 5314   109]
 [  925 12441]]
Accuracy Score: 0.9449678003086912
Classification Report:
              precision    recall  f1-score   support

           0       0.85      0.98      0.91      5423
           1       0.99      0.93      0.96     13366

    accuracy                           0.94     18789
   macro avg       0.92      0.96      0.94     18789
weighted avg       0.95      0.94      0.95     18789
```