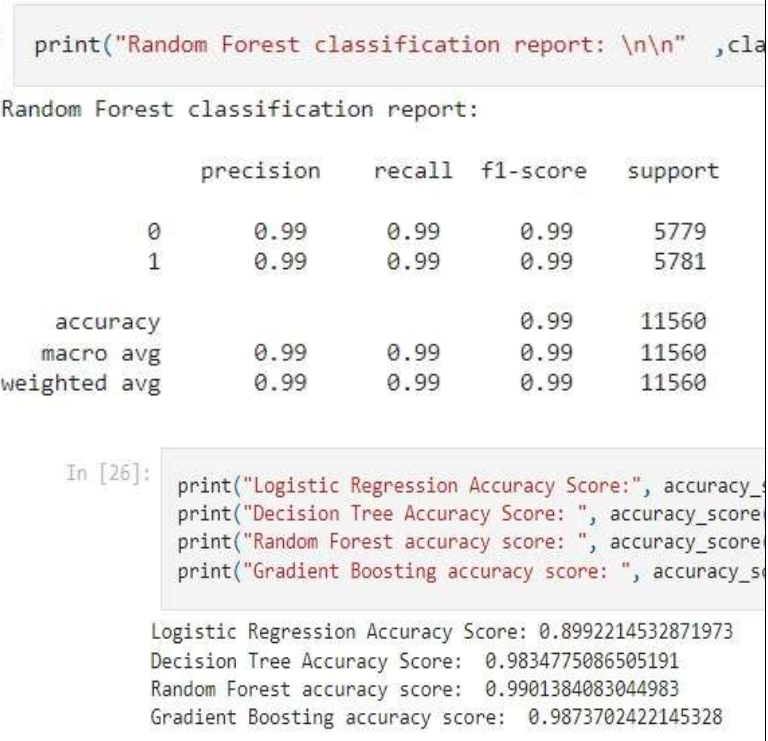


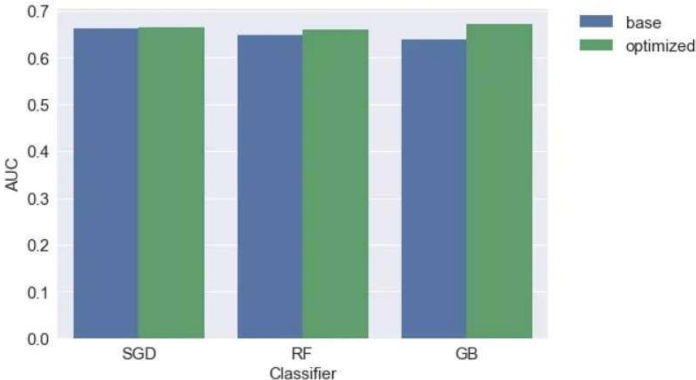
## Project Development Phase Model Performance Test

Date	1 November 2023
Team ID	Team-561695
Project Name	Online Fraud 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	<b>Classification Model:</b> Accuray Score- & Classification Report -	 <pre> print("Random Forest classification report: \n\n" ,cla Random Forest classification report:                precision    recall  f1-score   support       0       0.99      0.99      0.99     5779      1       0.99      0.99      0.99     5781   accuracy          0.99      0.99      0.99     11560  macro avg         0.99      0.99      0.99     11560 weighted avg         0.99      0.99      0.99     11560  In [26]: print("Logistic Regression Accuracy Score:", accuracy_s print("Decision Tree Accuracy Score: ", accuracy_score print("Random Forest accuracy score: ", accuracy_score print("Gradient Boosting accuracy score: ", accuracy_s  Logistic Regression Accuracy Score: 0.8992214532871973 Decision Tree Accuracy Score: 0.9834775086505191 Random Forest accuracy score: 0.9901384083044983 Gradient Boosting accuracy score: 0.9873702422145328           </pre>

2.	Tune the Model	Hyperparameter Tuning - Validation Method -	 <p>A bar chart comparing the Area Under the Curve (AUC) for three classifiers: SGD, RF, and GB. For each classifier, two bars are shown: 'base' (blue) and 'optimized' (green). The y-axis represents AUC, ranging from 0.0 to 0.7. The x-axis is labeled 'Classifier'. The legend indicates that blue bars represent 'base' and green bars represent 'optimized'.</p> <table><tr><th>Classifier</th><th>base</th><th>optimized</th></tr><tr><td>SGD</td><td>0.66</td><td>0.67</td></tr><tr><td>RF</td><td>0.65</td><td>0.66</td></tr><tr><td>GB</td><td>0.64</td><td>0.67</td></tr></table>	Classifier	base	optimized	SGD	0.66	0.67	RF	0.65	0.66	GB	0.64	0.67
Classifier	base	optimized													
SGD	0.66	0.67													
RF	0.65	0.66													
GB	0.64	0.67													