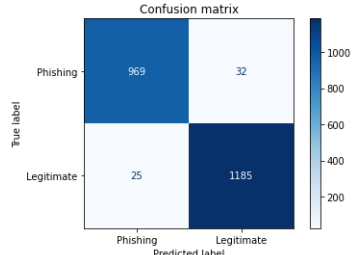


Project Development Phase Model Performance Test

Date	19 November 2022
Team ID	PNT2022TMID21424
Project Name	Project - Web Phishing Detection using ML
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics	<p>Classification Model:</p> <p>Confusion Matrix</p> <p>Accuracy Score</p> <p>Classification Report</p>	 <pre> from sklearn.metrics import accuracy_score accuracy_score(y_test, y_test_xgb) 0.9742198100407056 precision recall f1-score support 0 0.97 0.97 0.97 1001 1 0.97 0.98 0.98 1210 accuracy 0.97 0.97 0.97 2211 macro avg 0.97 0.97 0.97 2211 weighted avg 0.97 0.97 0.97 2211 </pre>
2.	Tune the Model	<p>Hyperparameter Tuning - None</p> <p>Validation Method – k-fold cross validation, where k=5</p>	<pre> import numpy as np from sklearn.model_selection import KFold kf = KFold(n_splits=5) x, y = np.array(x), np.array(y) kf.get_n_splits(x) i = 0 for train_index, test_index in kf.split(x): X_train, X_test = x[train_index], x[test_index] y_train, y_test = y[train_index], y[test_index] xgb = xgbclassifier(learning_rate=0.4, max_depth=7) xgb.fit(X_train, y_train) i += 1 print(f"Accuracy, fold {i} = ", accuracy_score(y_test, xgb.predict(X </pre> <p>Accuracy, fold 1 = 0.984622342031298 Accuracy, fold 2 = 0.9769335142469471 Accuracy, fold 3 = 0.9819086386250565 Accuracy, fold 4 = 0.9615558570782451 Accuracy, fold 5 = 0.9416553595658074</p>