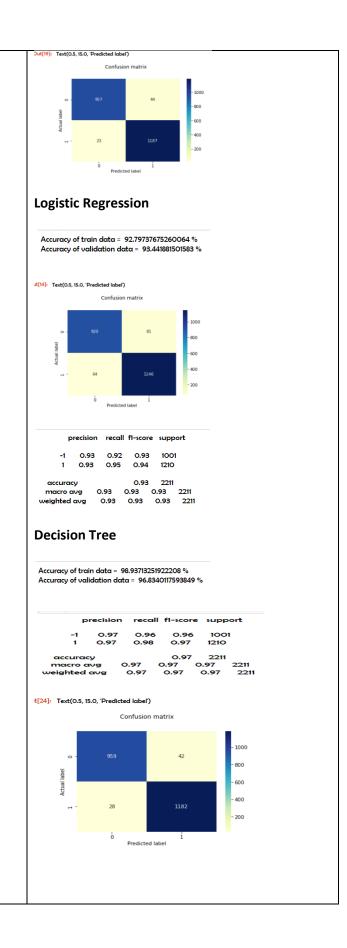
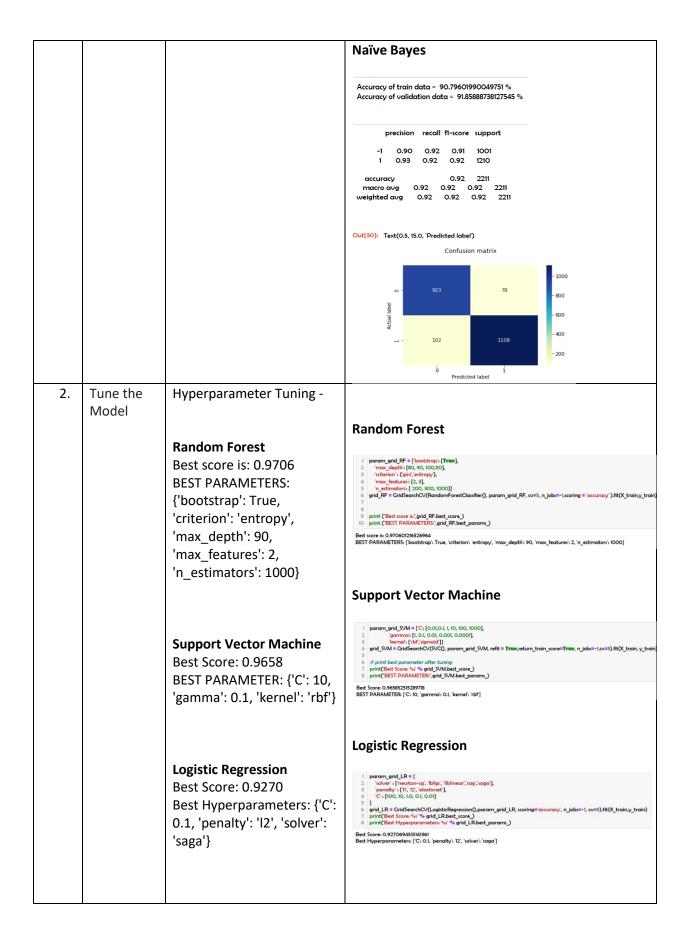
Project Development Phase Model Performance Test

Date	10 November 2022
Team ID	PNT2022TMID36037
Project Name	Web Phishing Detection
Maximum Marks	10 Marks

Model Performance Testing:

S.No.	Parameter	Values	Screenshot
1.	Metrics Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Classification Report - Accuracy Score- Random Forest Training Accuracy - 98.93% Validation Accuracy - 97.46% Support Vector Machine Training Accuracy - 98.42% Validation Accuracy - 96.96%	MAE - , MSE - ,	Random Forest
		Confusion Matrix - , Classification Report - Accuracy Score- Random Forest Training Accuracy - 98.93%	Accuracy of train data = 98.93713251922208 % Accuracy of test data = 97.46720940750791 % precision recall f1-score support -1 0.98 0.97 0.97 1001 1 0.97 0.98 0.98 1210 accuracy 0.97 2211 macro avg 0.98 0.97 0.97 2211 weighted avg 0.97 0.97 0.97 2211
		t[35]: Text(0.5, 15.0, 'Predicted label') Confusion matrix	
		-1000 -800 -600 -600 -400 -200	
		Logistic Regression Training Accuracy -92.79 % Validation Accuracy - 93.44%	Support Vector Machine
		Decision Tree Training Accuracy – 98.93% Validation Accuracy - 96.83%	Accuracy of train data = 98.4283129805518 % Accuracy of validation data = 96.969696969697 % precision recall f1-score support
		Naïve Bayes Training Accuracy – 90.79% Validation Accuracy - 91.85%	-1 0.98 0.96 0.97 1001 1 0.96 0.98 0.97 1210 accuracy 0.97 2211 macro avg 0.97 0.97 0.97 2211 weighted avg 0.97 0.97 0.97 2211





Decision Tree

Best score is: 0.96 BEST PARAMETERS: {'criterion': 'entropy', 'max_depth': 35, 'min_samples_split': 2, 'splitter': 'random'}

Naïve Bayes

Best score is: 0.9073 BEST PARAMETERS: {'var_smoothing': 0.3511191734215131}

Decision Tree

Naïve Bayes

```
| params_NB = [var_imoothing: np.logspace(0, -9, num=100)]
| grid_NB = GridSearchCV(CaussianNB(), param_grid=params_NB, cv=5, scoring=accuracy).fit(X_train,y_train)
| description | print (Best score is grid_NB.best_score )
| print (Best score is grid_NB.best_score )
| print (Best score is grid_NB.best_params_)
| Best score is 0.907395082223001
| BEST PARAMETERS: [var_moothing: 0.351191734215131]
```