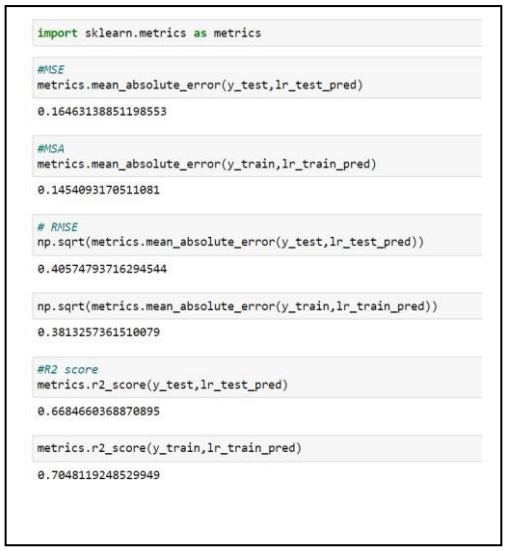
Project Development Phase
Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID35406
Project Name	Project – Web Phishing Detection
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	**Regression Model:**
		MAE – 0.145
		MSE – 0.1646
		RMSE – 0.3818
		R2 score – 0.704
		
		Classification Model: Confusion Matrix –
		array([[961,53],
		[20, 1177]],
		dtype=int64)
		
		Accuracy Score – 96.69%
		
		Classification Report –
		precision recall f1-score support
		
		-1 0.93 0.89 0.91 1014
		1 0.91 0.94 0.93 1197
		
		accuracy 0.92 2211
		macro avg 0.92 0.92 0.92 2211
			
			`pd.crosstab(y_test, lr_test_pred)`
			col_0 -1 1
			row_0
			-1 902 112
			1 70 1127
			
			`print(classification_report(y_test, lr_test_pred))`
			precision recall f1-score support
			-1 0.93 0.89 0.91 1014
			1 0.91 0.94 0.93 1197
			accuracy 0.92 2211
			macro avg 0.92 0.92 0.92 2211
			weighted avg 0.92 0.92 0.92 2211

		weighted avg 0.92 0.92 0.92 2211 Training accuracy: 0.92 Testing accuracy:0.91	print('Training accuracy: ',accuracy_score(y_train,lr_train_pred)) print('Testing accuracy: ',accuracy_score(y_test,lr_test_pred)) Training accuracy: 0.9272953414744459 Testing accuracy: 0.9176843057440073
2.	Tune the Model	Hyperparameter Tuning - GridSearchCV Validation Method	