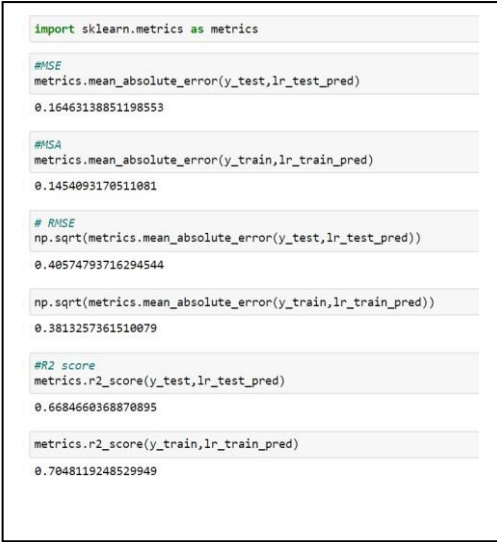


Project Development Phase Model Performance Test

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	<p>Regression Model: MAE – 0.145 MSE – 0.1646 RMSE – 0.3818 R2 score – 0.704</p> <p>Classification Model: Confusion Matrix – array([[961,53], [20,1177]], dtype=int64)</p> <p>Accuracy Score – 96.69%</p> <p>Classification Report –</p> <pre> precision r recall f1-score support -1 0.89 0.91 1014 1 0.94 0.93 1197 accuracy 0.92 2211 macro avg 0.92 2211 weighted avg 0.92 2211 </pre>	 <pre> import sklearn.metrics as metrics #MSE metrics.mean_absolute_error(y_test,lr_test_pred) 0.16463138851198553 #MSA metrics.mean_absolute_error(y_train,lr_train_pred) 0.1454093170511081 # RMSE np.sqrt(metrics.mean_absolute_error(y_test,lr_test_pred)) 0.40574793716294544 np.sqrt(metrics.mean_absolute_error(y_train,lr_train_pred)) 0.3813257361510079 #R2 score metrics.r2_score(y_test,lr_test_pred) 0.6684660368870895 metrics.r2_score(y_train,lr_train_pred) 0.7048119248529949 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 </pre>

		<pre>weighted avg 0.92 0.92 0.92 2 211 Training accuracy: 0.92 Testing accuracy:0.91</pre>	<pre>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: 0.9176843857448873</pre>
2.	Tune the Model	Hyperparameter Tuning - GridSearchCV Validation Method	