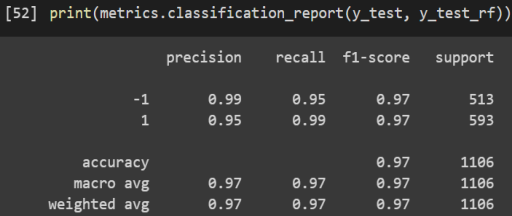


## Project Development PhaseModel Performance Test

Date	17 November 2022
Team ID	PNT2022TMID24896
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.

Parameter	Values	Screenshot
Metrics	<b>Classification Model:</b> <b>Random Forest Classification</b> Train Accuracy Score- 99.01% Test Accuracy Score-96.47%	

METRICS: CLASSIFICATION REPORT:

```

Result('RandomForestClassifier',acc_train_rf,acc_test_rf)

Accuracy on training Data: 99.01
Accuracy on test Data: 96.84
Random Forest: f1_score on training Data: 0.991
Random Forest : f1_score on test Data: 0.971

Random Forest : Recall on training Data: 0.995
Random Forest : Recall on test Data: 0.988

Random Forest: precision on training Data: 0.988
Random Forest : precision on test Data: 0.954

[52] print(metrics.classification_report(y_test, y_test_rf))

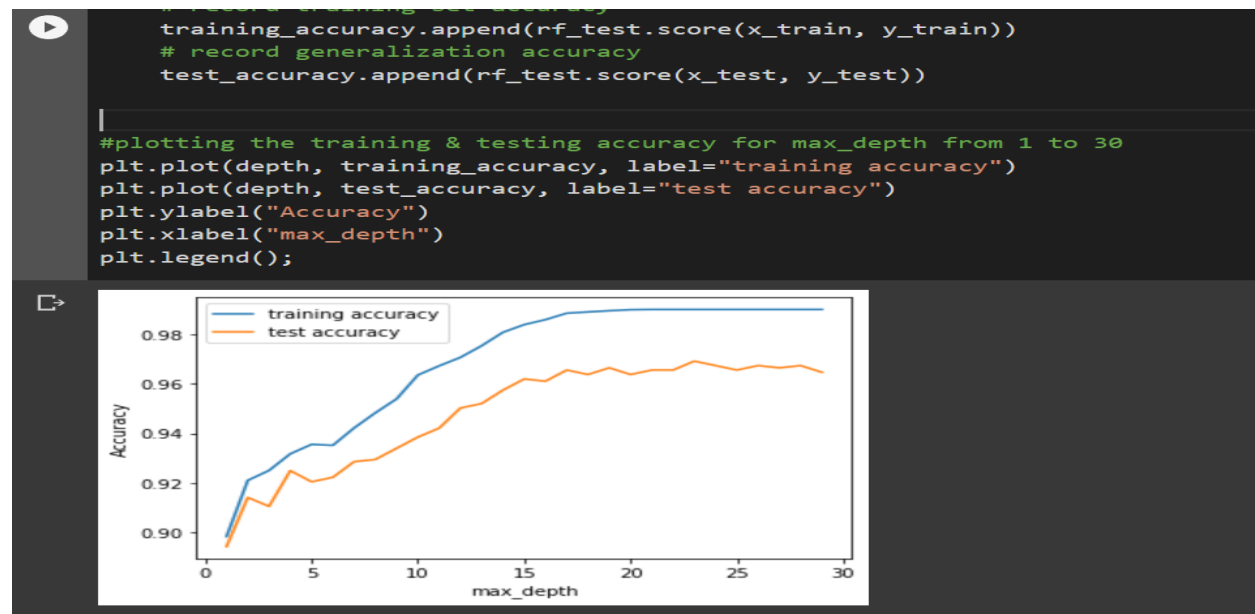
              precision    recall  f1-score   support

     -1       0.99       0.95       0.97         513
      1       0.95       0.99       0.97         593

 accuracy          0.97         1106
  macro avg          0.97         1106
 weighted avg          0.97         1106

```

## PERFORMANCE:



```
res =pd.DataFrame({'ML Model':Model,'Train Accuracy':train,'Test Accuracy':test,'f1-score':f1_score ,
res
```

	ML Model	Train Accuracy	Test Accuracy	f1-score	Recall	Precision
0	LogisticRegression()	93.064630	90.958409	0.917628	0.947520	0.929806
1	RandomForestClassifier	99.014976	96.473779	0.967688	0.993889	0.988559
2	svm	0.988240	0.962025	0.967688	0.993889	0.988559
3	svm	95.527189	93.399638	0.939819	0.971244	0.949903
4	XgbClassifier	95.436727	94.303798	0.947544	0.968188	0.951095
5	Decision Tree	91.848427	91.229656	0.919636	0.929008	0.925515
6	KNN	0.988240	0.962025	0.919636	0.929008	0.925515