Project Title:	Web Phishing Detection
Team ID:	PNT2022TMID29369
Team Members:	Chandru S Srihari S ArunKumar A Ashok E Purushothaman R
Total Marks:	10

## PERFORMANCE TESTING

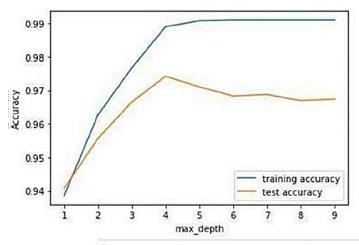
S.No.	Parameter	Values	Screenshot  To 703, Accessor to Land Flactor Access of the main product of the Land Flactor Access of the main product of the Land Flactor access of the main product of the Land Flactor access of the Land Flattor access of the Land Flatt		
1.	Metrics	Classification Model: Gradient Boosting Classification Accuray Score- 97.4%			
2.	Tune the Model	Hyperparameter Tuning - 97% Validation Method – KFOLD & Cross Validation Method			

## 1. METRICS: CLASSIFICATION REPORT:

In [52]: #computing the classification report of the model
 print(metrics.classification\_report(y\_test, y\_test\_gbc))

		precision	recall	f1-score	support
	-1	0.99	0.96	0.97	976
	1	0.97	0.99	0.98	1235
accur	acy			0.97	2211
macro	avg	0.98	0.97	0.97	2211
weighted	avg	0.97	0.97	0.97	2211

## PERFORMANCE:



Out[83]:		ML Model	Accuracy	f1_score	Recall	Precision
	0	Gradient Boosting Classifier	0.974	0.977	0.994	0.986
	1	CatBoost Classifier	0.972	0.975	0.994	0.989
	2	Random Forest	0.969	0.972	0.992	0.991
	3	Support Vector Machine	0.964	0.968	0.980	0.965
	4	Decision Tree	0.958	0.962	0.991	0.993
	5	K-Nearest Neighbors	0.956	0.961	0.991	0.989
	6	Logistic Regression	0.934	0.941	0.943	0.927
	7	Naive Bayes Classifier	0.605	0.454	0.292	0.997
	8	XGBoost Classifier	0.548	0.548	0.993	0.984
	9	Multi-layer Perceptron	0.543	0.543	0.989	0.983