

Project Development Phase Model Performance Test

Date	18 November 2022
Team ID	PNT2022TMID40333
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
1.	Metrics	Regression Model: MAE - , MSE - , RMSE - , R2 score - Classification Model: Confusion Matrix - , Accuray Score- & Classification Report -

SCREENSHOT

```
In [6]: from sklearn.linear_model import LogisticRegression
lr=LogisticRegression()
lr.fit(x_train,y_train)
```

```
Out[6]: LogisticRegression()
```

```
In [9]: y_pred1=lr.predict(x_test)
from sklearn.metrics import accuracy_score
log_reg=accuracy_score (y_test,y_pred1)
log_reg
```

```
Out[9]: 0.9167797376752681
```

```
In [10]: pd.crosstab(y_test,y_pred1)
```

```
Out[10]: col_0  -1    1
row_0
-1    905   109
1      75  1122
```

```
In [26]: print(confusion_matrix(y_test,y_pred1))
```

```
[[ 905  109]
 [  75 1122]]
```

2.	Tune the Model	Hyperparameter Tuning - Validation Method -
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SCREENSHOT

```
In [15]: print(classification_report(y_test,y_pred1))
```

	precision	recall	f1-score	support
-1	0.92	0.89	0.91	1014
1	0.91	0.94	0.92	1197
accuracy			0.92	2211
macro avg	0.92	0.91	0.92	2211
weighted avg	0.92	0.92	0.92	2211