Confusion Matrix Report

Logistic Regression-Classification

<pre>print(clf_report)</pre>				
	precision	recall	f1-score	support
0	0.90	0.94	0.92	79
1	0.87	0.80	0.84	41
accuracy			0.89	120
macro avg	0.89	0.87	0.88	120
weighted avg	0.89	0.89	0.89	120
print(cm)				
[[74 5] [8 33]]				

True Purchased (TP)=74

False Purchased (FP)=5

Flase Not Purchased (FNP) =8

True Not Purchased (TNP) = 33

1.Accuracy:

Recall:

2. Purchased:

TP 74 74
---- = ---- =
$$\frac{0.94}{1}$$
TP+FNP 74+5 79

3.Not Purchased:

TNP 33 33 =
$$0.80$$
TNP+FNP 33+8 41

Precisioin:

4. Purchased:

5.Not Purchased:

F1 Score:

6. Purchased:

7.Not Purchased:

Macro Average:

8. Precision:

Precision purchased + Precision not purchased
$$0.90 + 0.87$$

$$0.90 + 0.87$$

$$0.885$$

9.Recall:

10.F1 Score:

Weighted Average:

11. Precision:

12.Recall:

Total counts on test set

13.F1 Score:

120

Total count of Not purchased

Total counts on test set

120