EVALUATION METRICS USING CONFUSION MATRIX

LOGISTIC REGRESSION

1.ACCURACY:

What is the percentage of correct classification of both purchased and non-purchased to the total input of the test set. = 0.63%

2.RECALL:

i. What is the percentage of correct classification of purchased to the total input of purchased in the test set. = 0.1.00%

ii. What is the percentage of correct classification of non-purchased to the total input of non - purchased in the total set. = 0.00%

3.PRECISION:

i. What is the percentage of correct classification of purchased to sum of correct classification as purchased and wrongly classified as purchased in the test set. = 0.63%

ii. What is the percentage of correct classification of non-purchased to sum of correct classified as non-purchased and wrongly classified as non-purchased in the test set. = 0.00%

4. F1 SCORE:

i. What is the overall performance of purchased = 0.78%

ii. What is the overall performance of non-purchased = 0.00%

5. MACRO AVERAGE:

i. PRECISION - What is the average performance of precision. (correctly or wrongly classified) = 0.32%

ii. RECALL - What is the average performance of recall. (correctly classified) = 0.50%

iii. F1 SCORE - What is the average performance of F1 measure. (overall performance) = 0.39%

6.WEIGHTED AVERAGE:

i. PRECISION - What is the sum of product of proportion rate(weight) of each class(precision) = 0.40%

ii. RECALL - What is the sum of product of proportion rate(weight) of each class(recall) = 0.63%

iii. F1 SCORE - What is the sum of product of proportion rate(weight) of each class (F1 Score) = 0.49%