Performance_Analysis

20 April 2022 13:37

Testing

Actual - 100

90 - 0 - not leave ✓

(10)- 1- left

Model -2 predictions 80 - 0 - not leave - 80 (20) 1 - leave

R= 90 =987.

R= 100 t.

R= 100 t.

Model -1 predictions

95 - 0 - not leave - 👂

05 - 1 - leave

A= 35 = 95%.

Relevant Accuracy to dum

Recull

Control

Recull

Control

Reservant

Recull

Control

Recull

Recull

Control

Recull

Recull

Recull

Recull

Recull

Recull

Recul

Testing - 100 customers

Actual

90 - 0 - not leave

10 - 1 - left

Model1 Prediction

95 - 0 - not leave - 90

05 - 1 - leave

Accuracy = 95/100 = 0.95

Business objective: to identify those customers who left the bank - to identify class 1

Accuracy with in class 1 (relevant business accuracy = recall) = (correct predictions in class 1) / (total actual in class 1) = 5/10 = 0.5

80 -0 - NL - 80 20) -1 - 7L - 80 R= 907 - 75 R= 907 - 75 R= 907 - 75

Precision = purity of predictions = (correct predictions in class 1) / (total predictions in class 1) = 5/5 = 1

travel CC Ex substity CC Exister CC Ex Substity CC Exister CC Exis

FI Score = 2

Confusion Matrix

ypred v)s ytest

pirot of Actual vls prediction

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	Actual Pred	0	1
Refus }		Negative	Positive
	0	True Negative TN	False Positive FP
	1	False Negative FN	True Positive TP
)	Actual Pred 0 1	Negative O True Negative TN 1 False Negative

A=	TP+TN+ FP+FN
0.6	TP

$$R = \frac{TP}{TP + FN}$$

$$P = \frac{TP}{TP + FP}$$