

Data Mining Assignment 2

Training and Testing Data:

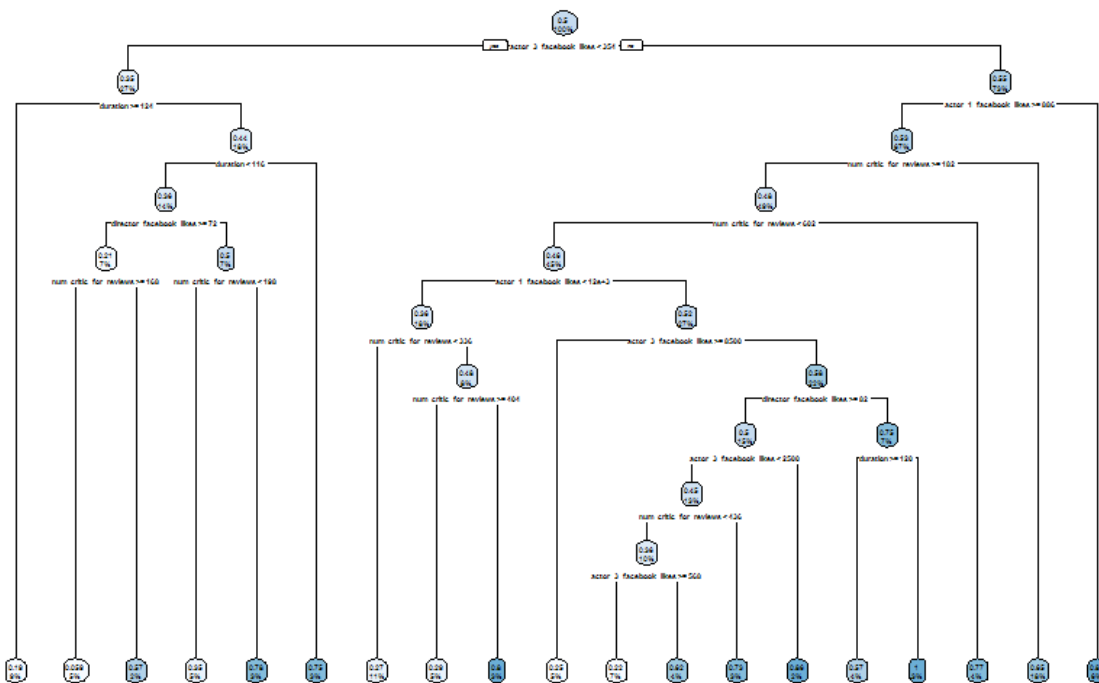
We have divided our dataset into two parts :

1.Training Data

2.Testing Data

Using Stratified Sampling with ratio of 0.7

The following is the decision tree obtained:



After that we have compared the result obtained from ID3 algorithm with the testing data. Then we obtained a confusion matrix by which we can identify the efficiency of the algorithm.

Confusion Matrix and Statistics

	Reference	
Prediction	0	1
0	45	31
1	39	35

Accuracy : 0.5333
95% CI : (0.4502, 0.6151)
No Information Rate : 0.56
P-Value [Acc > NIR] : 0.7708

Kappa : 0.0652
McNemar's Test P-Value : 0.4028

Sensitivity : 0.5357
Specificity : 0.5303
Pos Pred Value : 0.5921
Neg Pred Value : 0.4730
Prevalence : 0.5600
Detection Rate : 0.3000
Detection Prevalence : 0.5067
Balanced Accuracy : 0.5330

'Positive' Class : 0

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