

CO544 Lab 01

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8. Note down the results in the below table

	Correctly classified instances	Incorrectly classified instances
Training Set	143 (92.2581%)	12 (7.7419%)
Cross validation(10 folds)	130 (83.871%)	25 (16.129%)

9. Interpret the results from the 'confusion matrix' in the classifier output.

For J4.8 decision tree using the training set

	PREDICTED NO	PREDICTED YES
ACTUAL NO	22	10
ACTUAL YES	2	121

For J4.8 decision tree using the cross validate with 10 folds

	PREDICTED NO	PREDICTED YES
ACTUAL NO	14	18
ACTUAL YES	7	116

10. Change the parameters as below and compare the results with the results of the above model with default values. Confidence factor: 0.5 and Min number of folds: 2

	Correctly classified instances	Incorrectly classified instances
Training Set	149 (96.129%)	6 (3.871%)
Cross validation(10 folds)	126 (81.2903%)	29 (18.7097%)

When changing the confidence factor from 0.25 (default) 0.5 and reducing the minimum number of folds from 3 to 2, number of correctly classified instances in training set has increased by 6 instances. But in cross validation set number of correctly classified instances has decreased by 4 instances