

PREDICTION OF CATEGORICAL DATA USING BAYESIAN ALGORITHM USING WEKA

Weka Explorer

Preprocess **Classify** Cluster Associate Select attributes Visualize

Classifier

Choose **NaiveBayes**

Test options

☐ Use training set

☐ Supplied test set Set...

☒ Cross-validation Folds **10**

☐ Percentage split % **66**

More options...

(Nom) play

Start Stop

Result list (right-click for options)

17:49:10 - bayes.NaiveBayes

Classifier output

```
TRUE      4.0    4.0
FALSE     7.0    3.0
[total]   11.0   7.0
```

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances	9	64.2857 %
Incorrectly Classified Instances	5	35.7143 %
Kappa statistic	0.1026	
Mean absolute error	0.4649	
Root mean squared error	0.543	
Relative absolute error	97.6254 %	
Root relative squared error	110.051 %	
Total Number of Instances	14	

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.889	0.800	0.667	0.889	0.762	0.122	0.444	0.633	yes
	0.200	0.111	0.500	0.200	0.286	0.122	0.444	0.397	no
Weighted Avg.	0.643	0.554	0.607	0.643	0.592	0.122	0.444	0.548	

=== Confusion Matrix ===

```
a b  <-- classified as
8 1 | a = yes
4 1 | b = no
```

Status

OK

Log

x0