

EXPERIMENT 7

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose **NaiveBayes**

Test options:

- Use training set
- Supplied test set
- Cross-validation Folds: 10
- Percentage split % 66

(Nom) play

Result list (right-click for options)
12:1927 - bayes.NaiveBayes

Classifier output

```
== Run information ==
Scheme: weka.classifiers.bayes.NaiveBayes
Relation: weather.symbolic
Instances: 14
Attributes: 5
outlook
temperature
humidity
windy
play
Test mode: 10-fold cross-validation
== Classifier model (full training set) ==
Naive Bayes Classifier

      Class
Attribute   yes    no
          (0.63) (0.38)
=====
outlook
  sunny     5.0    4.0
  overcast  5.0    1.0
  rainy     4.0    3.0
  [total]   12.0   8.0

  temperature
  hot       3.0    3.0
  mild      5.0    3.0
  cool      4.0    2.0
  [total]   12.0   8.0

  humidity
  high      4.0    5.0
  normal    7.0    2.0
  [total]   11.0   7.0

  windy
  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      8      57.1429 %
Incorrectly Classified Instances    6      42.8571 %
Kappa statistic                   -0.0244
Mean absolute error               0.4374
Root mean squared error          0.4916
Relative absolute error           51.8631 %
Root relative squared error      59.6492 %
Total Number of Instances        14

== Detailed Accuracy By Class ==
      TP Rate FP Rate Precision Recall  F-Measure MCC ROC Area PRC Area Class
  0.778  0.800  0.636  0.778  0.700  -0.026  0.578  0.697  yes
  0.200  0.222  0.333  0.200  0.250  -0.026  0.578  0.557  no
Weighted Avg.  0.571  0.594  0.528  0.571  0.539  -0.026  0.578  0.647

== Confusion Matrix ==
a b  <-- classified as
1 2 | a = yes
4 1 | b = no
```

Status: OK

Log