

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

More options...

(Nom) play

Start Stop

Result list (right-click for options)

12/19/27 - 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

Attribute      Class      yes      no
              (0.63) (0.38)
=====
outlook
  sunny        3.0    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             0.4516
Relative absolute error             91.8631 %
Root relative squared error         99.6452 %
Total Number of Instances          14

=== Detailed Accuracy By Class ===

          TP Rate  FP Rate  Precision  Recall   F-Measure  MDC     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
7 2 | a = yes
4 1 | b = no
```

Status

OK

Log