EXPERIMENT 8

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) class

Start | Stop

Result list (right-click for options)
08:46:00 - bayes.NaiveBayes

Classifier output

```
=== Run information ===

Scheme:       weka.classifiers.bayes.NaiveBayes
Relation:     iris
Instances:    150
Attributes:   5
              sepallength
              sepalwidth
              petallength
              petalwidth
              class
Test mode:    10-fold cross-validation

=== Classifier model (full training set) ===

Naive Bayes Classifier

                        Class
Attribute      Iris-setosa Iris-versicolor  Iris-virginica
                  (0.33)         (0.33)         (0.33)
===============================================================
sepallength
  mean            4.9913         5.9379         6.5795
  std. dev.       0.355          0.5042         0.6353
  weight sum         50             50             50
  precision       0.1059         0.1059         0.1059

sepalwidth
  mean            3.4015         2.7687         2.9629
  std. dev.       0.3925         0.3038         0.3088
  weight sum         50             50             50
  precision       0.1091         0.1091         0.1091

petallength
  mean            1.4694         4.2452         5.5516
  std. dev.       0.1782         0.4712         0.5529
  weight sum         50             50             50
  precision       0.1405         0.1405         0.1405

petalwidth
  mean            0.2743         1.3097         2.0343
  std. dev.       0.1096         0.1915         0.2646
  weight sum         50             50             50
  precision       0.1143         0.1143         0.1143


Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===
=== Summary ===

Correctly Classified Instances         144               96       %
Incorrectly Classified Instances         6                4       %
Kappa statistic                          0.94
Mean absolute error                      0.0342
Root mean squared error                  0.155
Relative absolute error                  7.6997 %
Root relative squared error             32.8794 %
Total Number of Instances              150

=== Detailed Accuracy By Class ===

               TP Rate  FP Rate  Precision  Recall  F-Measure  MCC    ROC Area  PRC Area  Class
               1.000    0.000    1.000      1.000   1.000      1.000  1.000     1.000     Iris-setosa
               0.960    0.040    0.923      0.960   0.941      0.911  0.992     0.983     Iris-versicolor
               0.920    0.020    0.958      0.920   0.939      0.910  0.992     0.986     Iris-virginica
Weighted Avg.  0.960    0.020    0.960      0.960   0.960      0.940  0.994     0.989

=== Confusion Matrix ===

  a  b  c   <-- classified as
 50  0  0 |  a = Iris-setosa
  0 48  2 |  b = Iris-versicolor
  0  4 46 |  c = Iris-virginica
```

Status
OK

Log x 0