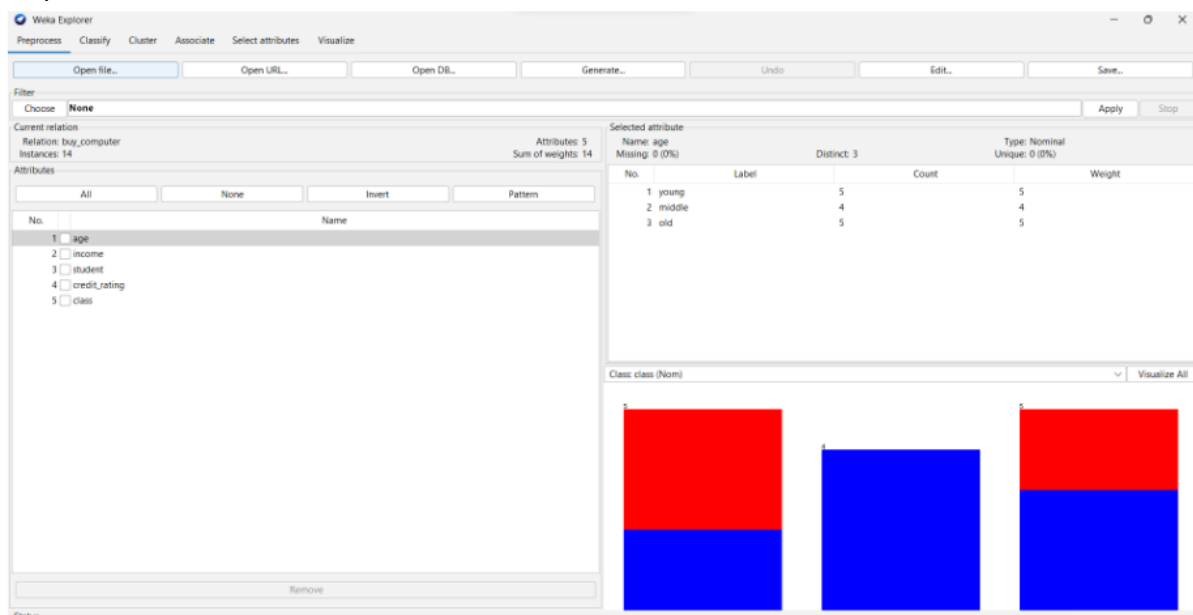


@relation computer
 @attribute age{young,middle,old}
 @attribute income{high,medium,low}
 @attribute student{yes,no}
 @attribute credit_rating{fair,excellent}
 @attribute class{yes,no}
 @data
 young high no fair yes
 young low no excellent no
 middle high no fair yes
 old medium yes fair yes
 old low yes fair no
 old low yes excellent no

Output:



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) class

Start Stop

Result list (right-click for options)

- 12:31:08 - bayes.NaiveBayes

Classifier output

```

class_output
  fair      7.0   3.0
  excellent 4.0   4.0
  [total]   11.0  7.0

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correctly Classified Instances      13      92.8571 %
Incorrectly Classified Instances      1      7.1429 %
Kappa statistic      0.8372
Mean absolute error      0.2917
Root mean squared error      0.3392
Relative absolute error      62.8233 %
Root relative squared error      70.7422 %
Total Number of Instances      14

=== Detailed Accuracy By Class ===

          TP Rate  FP Rate  Precision  Recall  F-Measure  MCC  ROC Area  PRC Area  Class
          1.000    0.200    0.900    1.000    0.947    0.849    0.922    0.947    yes
          0.800    0.000    1.000    0.800    0.889    0.849    0.911    0.911    no
Weighted Avg.   0.929    0.129    0.936    0.929    0.926    0.849    0.918    0.934

=== Confusion Matrix ===

 a b   <-- classified as
 0 0 | a = yes
 0 1 | a = no

```

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) class

Start Stop

Result list (right-click for options)

- 12:31:08 - bayes.NaiveBayes
- 12:34:17 - bayes.NaiveBayes

Classifier output

```

class_output
  fair      7.0   3.0
  excellent 4.0   4.0
  [total]   11.0  7.0

Time taken to build model: 0 seconds

=== Evaluation on test set ===

Time taken to test model on supplied test set: 0 seconds

=== Summary ===

Correctly Classified Instances      3      50 %
Incorrectly Classified Instances      3      50 %
Kappa statistic      0
Mean absolute error      0.4906
Root mean squared error      0.5707
Relative absolute error      95.7121 %
Root relative squared error      110.7376 %
Total Number of Instances      6

=== Detailed Accuracy By Class ===

          TP Rate  FP Rate  Precision  Recall  F-Measure  MCC  ROC Area  PRC Area  Class
          0.667    0.667    0.500    0.667    0.571    0.000    0.500    0.533    yes
          0.333    0.333    0.500    0.333    0.400    0.000    0.444    0.667    no
Weighted Avg.   0.500    0.500    0.500    0.500    0.486    0.000    0.472    0.600

=== Confusion Matrix ===

 a b   <-- classified as
 2 1 | a = yes
 2 1 | a = no

```