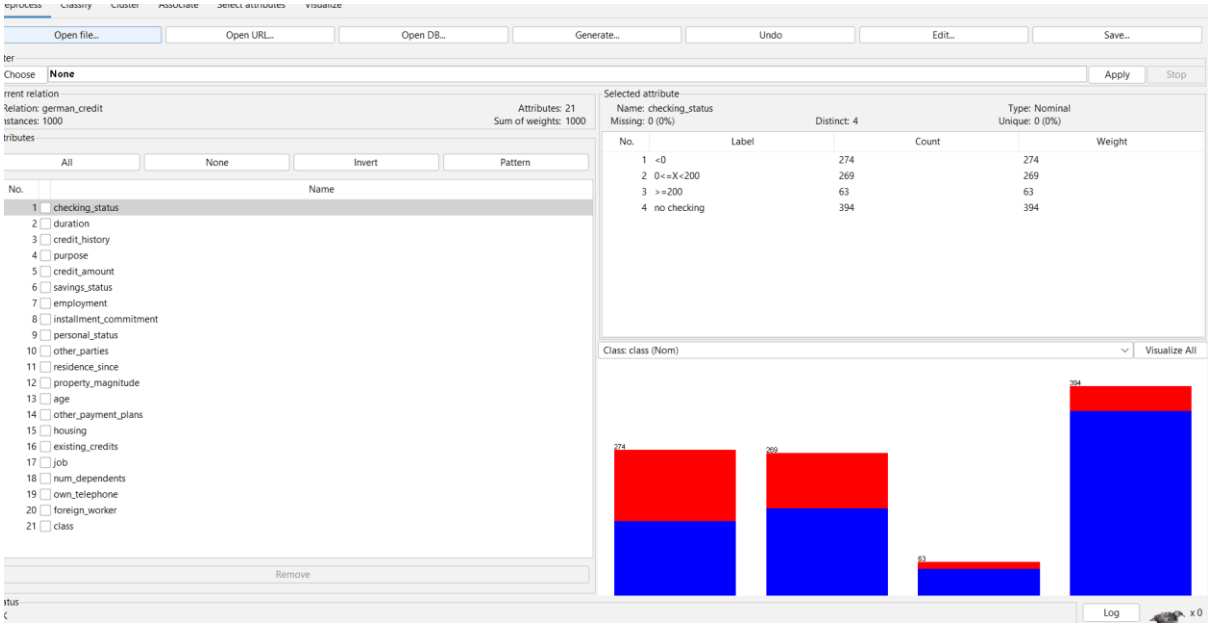
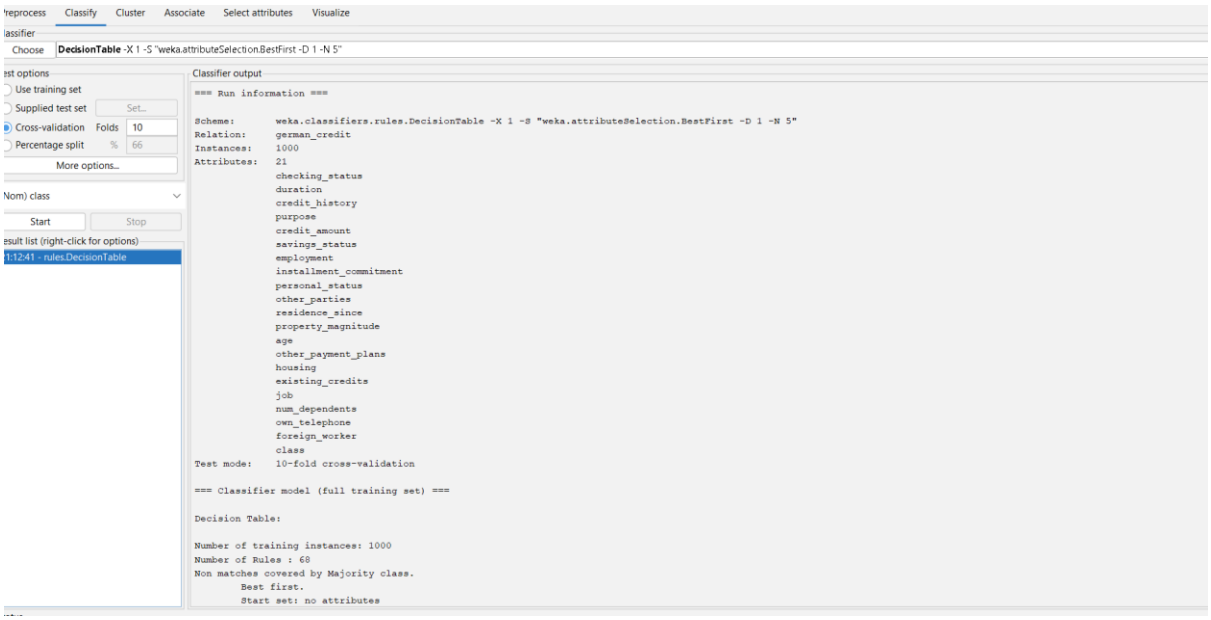
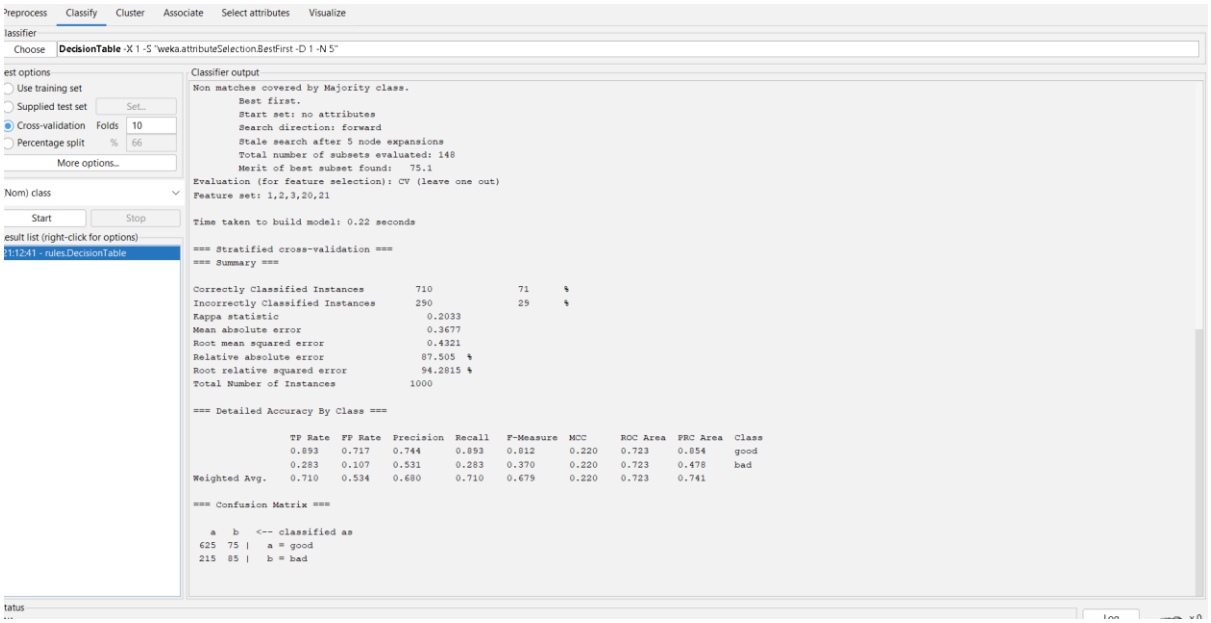
Prediction of categorical data using decision tree






Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
lassifier
Choose
DecisionTable -X 1 -S "weka.attributeSelection.BestFirst -D 1 -N 5"
est options
Use training set
Supplied test set
Set...
Cross-validation
Folds
10
Percentage split
%
66
More options...
Nom) class
Start
Stop
esult list (right-click for options)
1:12:41 - rules.DecisionTable
Classifier output
Non matches covered by Majority class.
Best first.
Start set: no attributes
Search direction: forward
Stale search after 5 node expansions
Total number of subsets evaluated: 148
Merit of best subset found: 75.1
Evaluation (for feature selection): CV (leave one out)
Feature set: 1,2,3,20,21
Time taken to build model: 0.22 seconds
=== Stratified cross-validation ===
=== Summary ===
Correctly Classified Instances 710 71 %
Incorrectly Classified Instances 290 29 %
Kappa statistic 0.2033
Mean absolute error 0.3677
Root mean squared error 0.4321
Relative absolute error 87.505 %
Root relative squared error 94.2815 %
Total Number of Instances 1000
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
0.893 0.717 0.744 0.893 0.812 0.220 0.723 0.854 good
0.283 0.107 0.531 0.283 0.370 0.220 0.723 0.478 bad
Weighted Avg. 0.710 0.534 0.680 0.710 0.679 0.220 0.723 0.741
=== Confusion Matrix ===
a b <-- classified as
625 75 | a = good
215 85 | b = bad
tatus