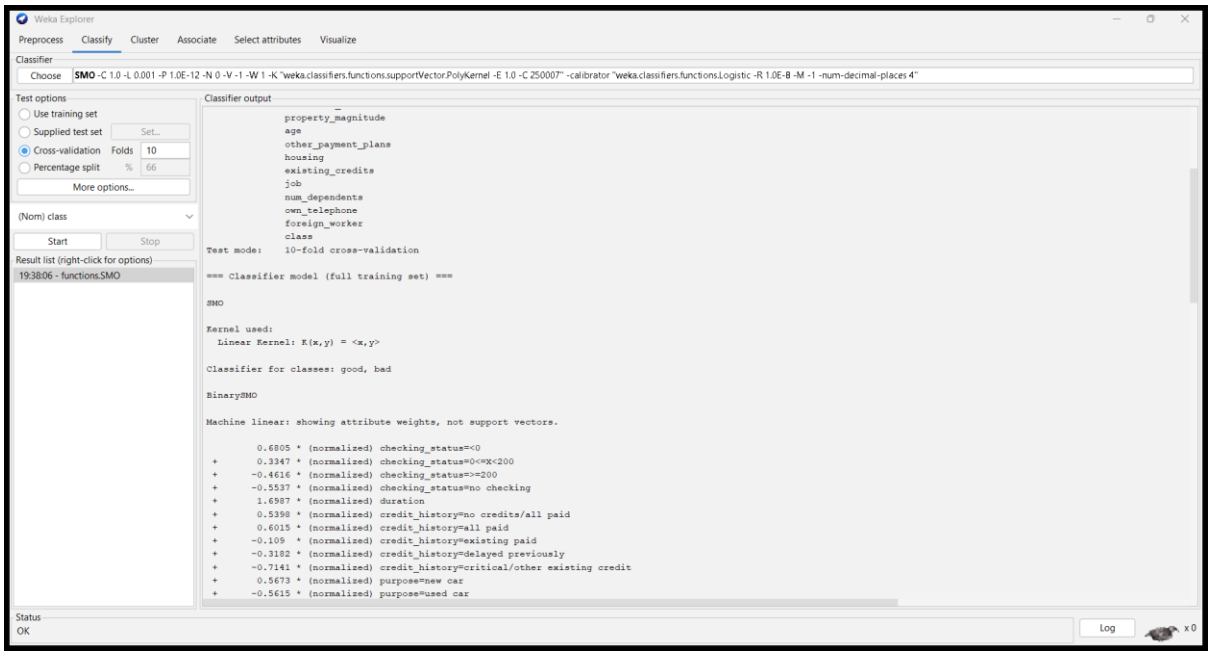
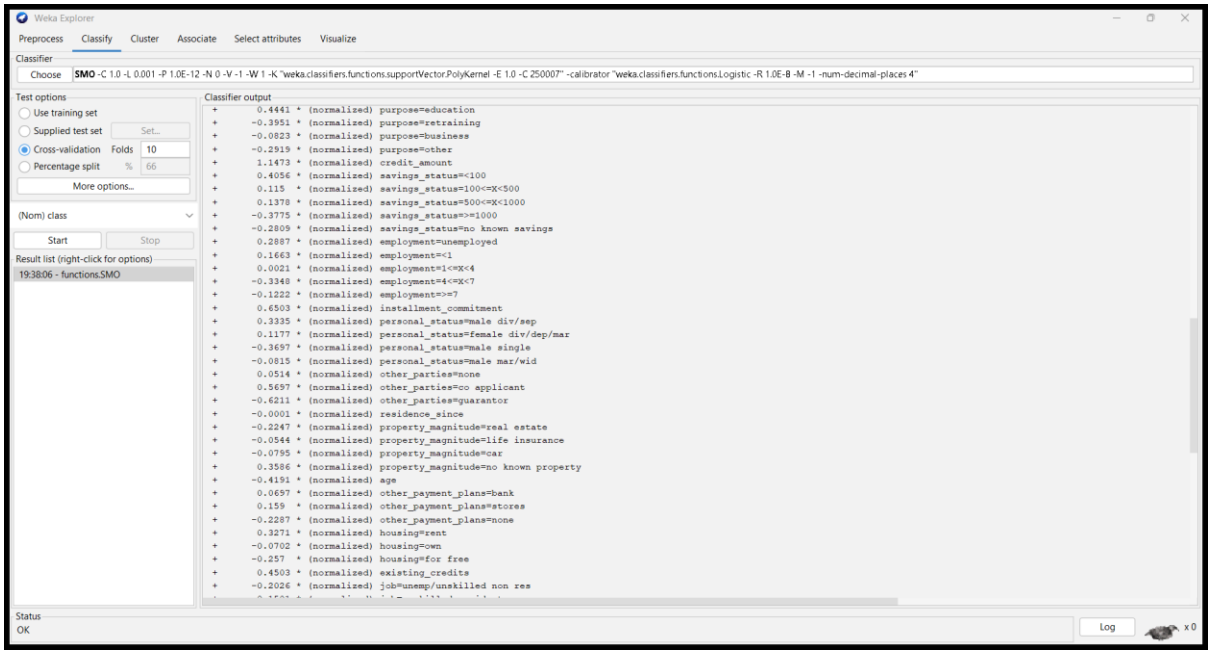
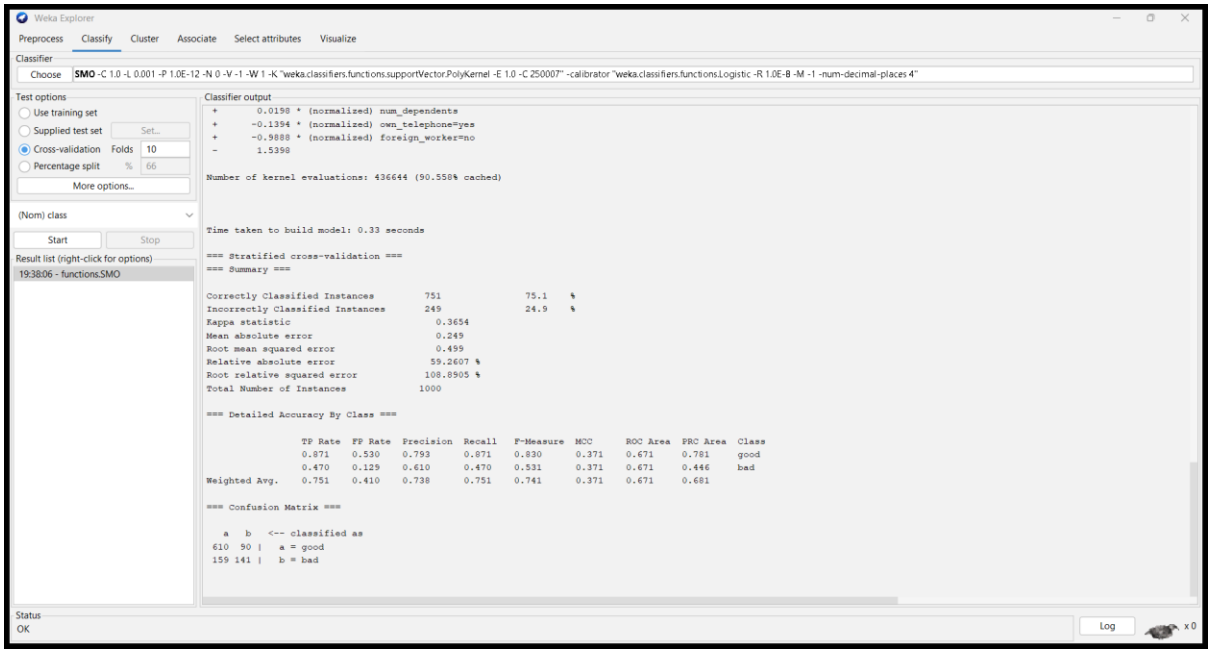
14:prediction of categorical data using SMO






Weka Explorer
Preprocess
Classify
Cluster
Associate
Select attributes
Visualize
Classifier
Choose
SMO -C 1.0 -L 0.001 -P 1.0E-12 -N 0 -V -1 -W 1 -K "weka.classifiers.functions.supportVector.PolyKernel -E 1.0 -C 250007" -calibrator "weka.classifiers.functions.Logistic -R 1.0E-8 -M -1 -num-decimal-places 4"
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)
19:38:06 - functions.SMO
Classifier output
+ 0.0198 * (normalized) num_dependents
+ -0.1394 * (normalized) own_telephone=yes
+ -0.9888 * (normalized) foreign_worker=no
- 1.5398
Number of kernel evaluations: 436644 (90.558% cached)
Time taken to build model: 0.33 seconds
=== Stratified cross-validation ===
=== Summary ===
Correctly Classified Instances 751 75.1 %
Incorrectly Classified Instances 249 24.9 %
Kappa statistic 0.3654
Mean absolute error 0.249
Root mean squared error 0.499
Relative absolute error 59.2607 %
Root relative squared error 108.8905 %
Total Number of Instances 1000
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
0.871 0.530 0.793 0.871 0.830 0.371 0.671 0.781 good
0.470 0.129 0.610 0.470 0.531 0.371 0.671 0.446 bad
Weighted Avg. 0.751 0.410 0.738 0.751 0.741 0.371 0.671 0.681
=== Confusion Matrix ===
a b <-- classified as
610 90 | a = good
159 141 | b = bad
Status
OK
Log
x 0