Name: Rampurawala Alefiya Abbas

Roll No: 43

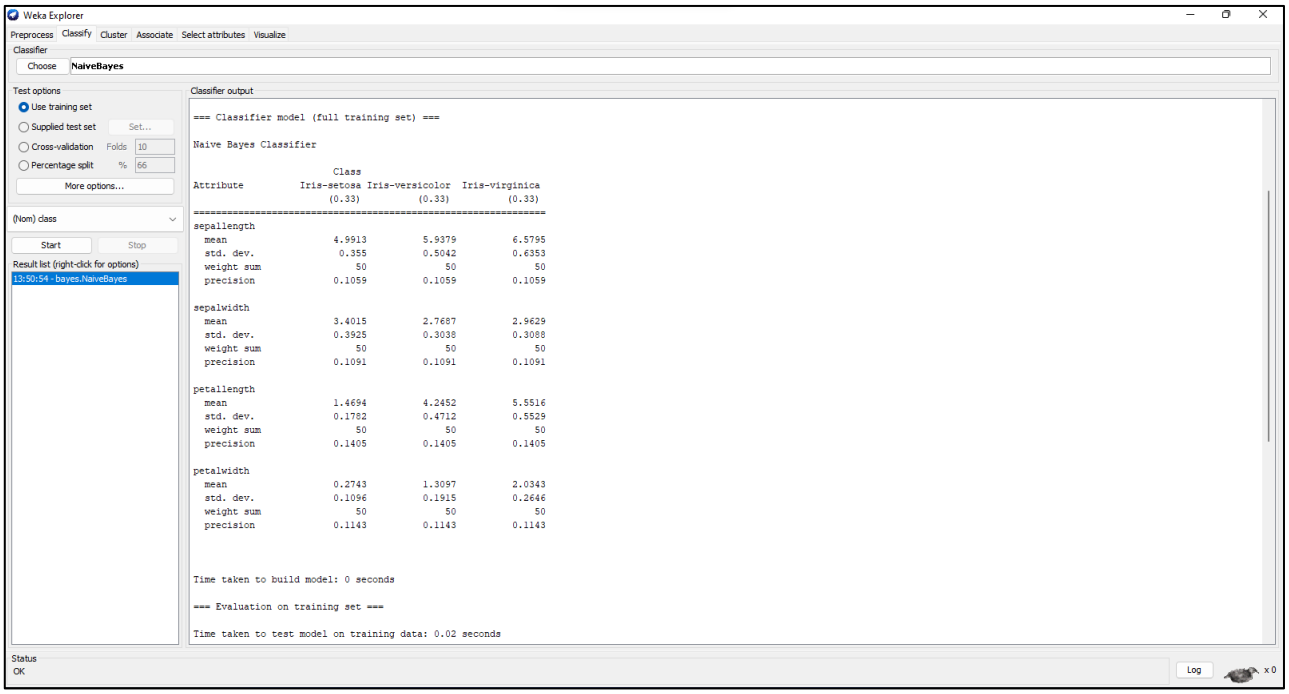
Class: TE4

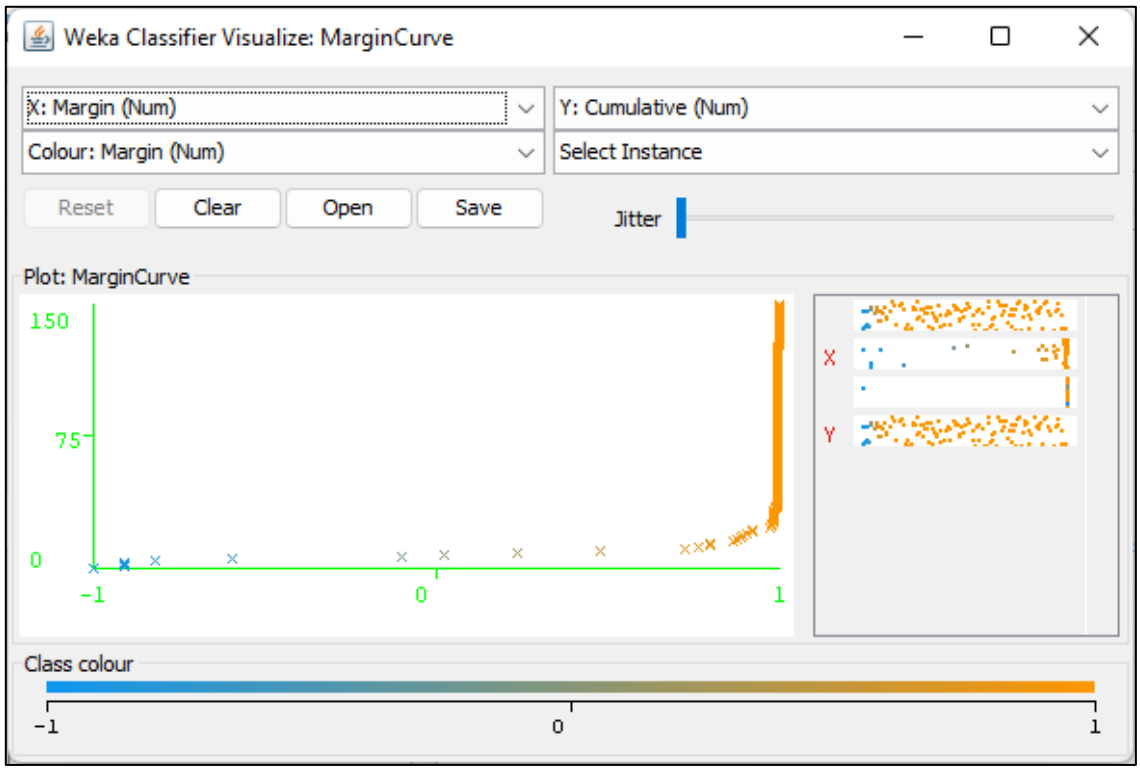
Batch: C

Subject: Data Warehousing & Mining

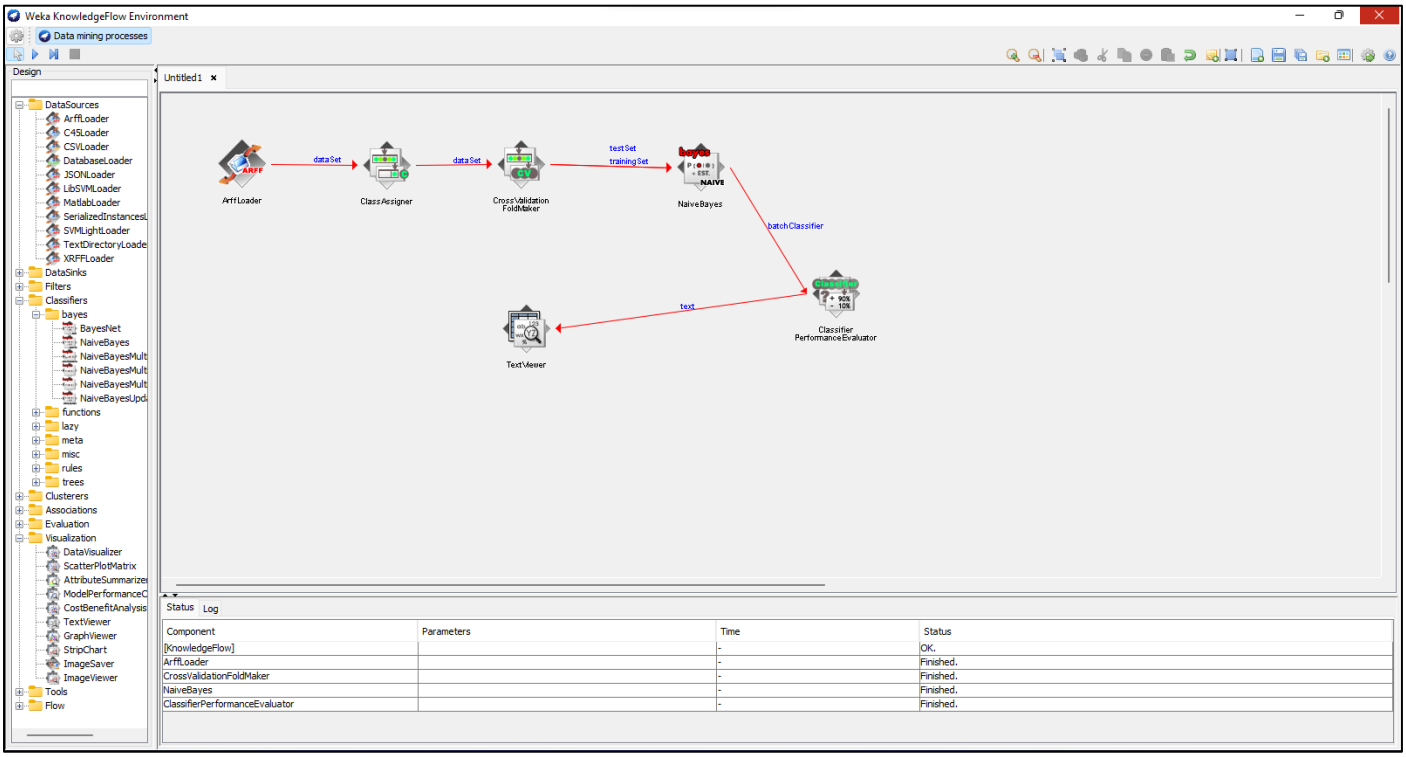
Experiment No.: 06

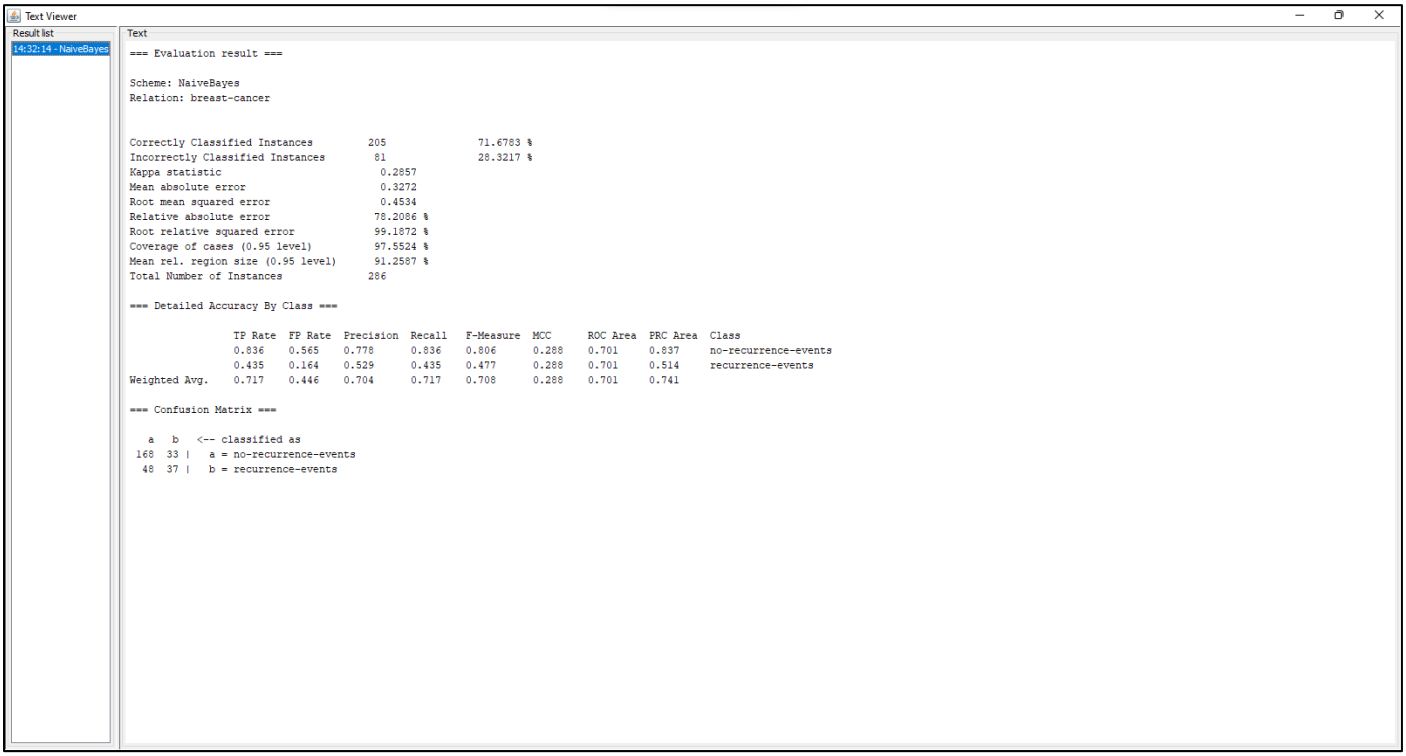
1. Weka Classification Using Naïve Bayesian:
    a. Explorer





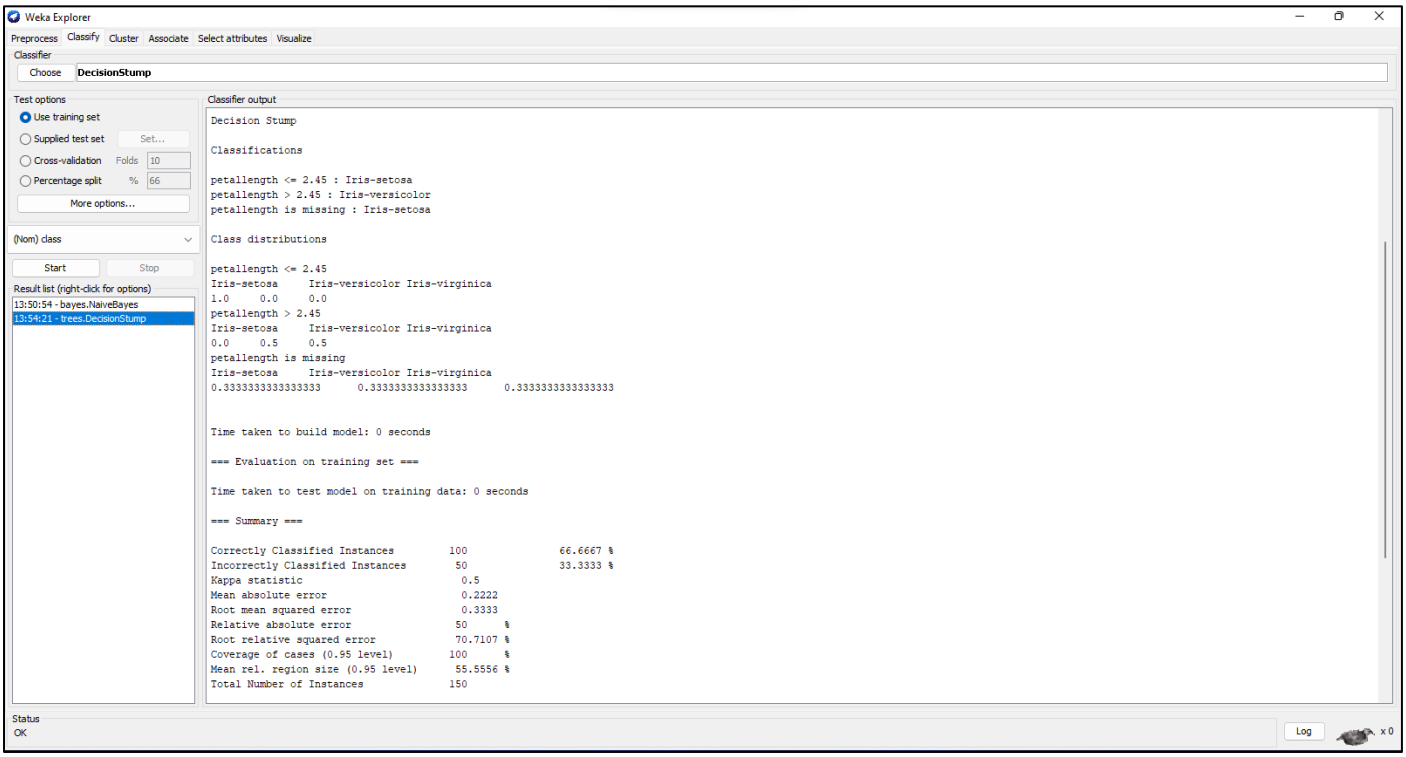
b. Knowledge Base

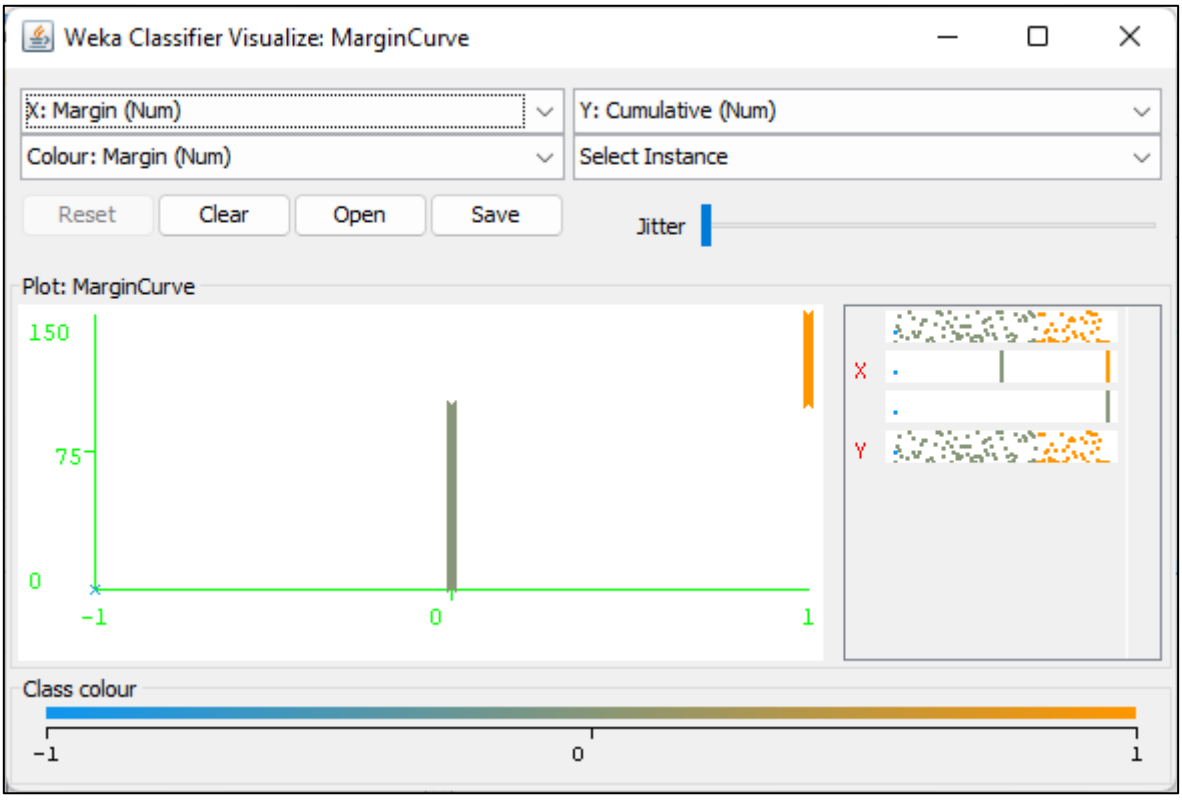




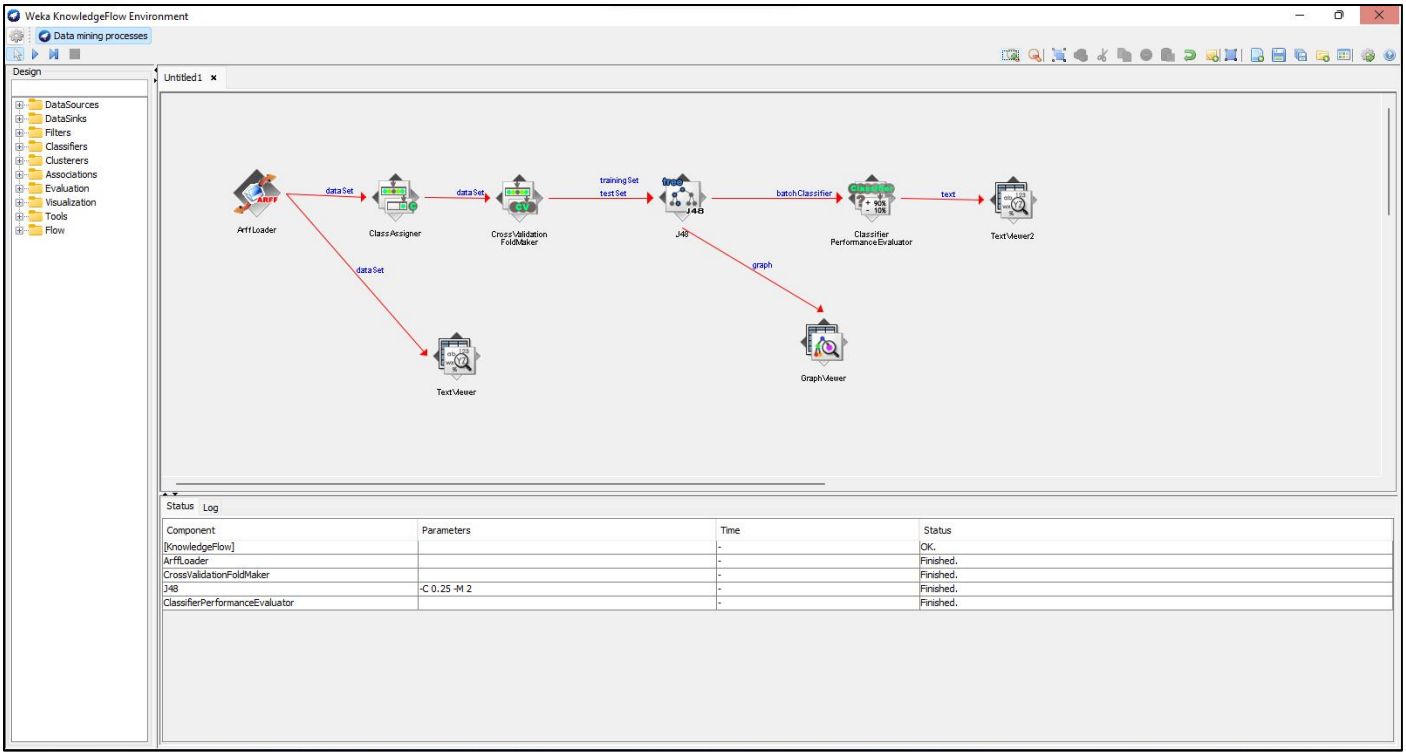
2. Weka Classification Using Decision Tree

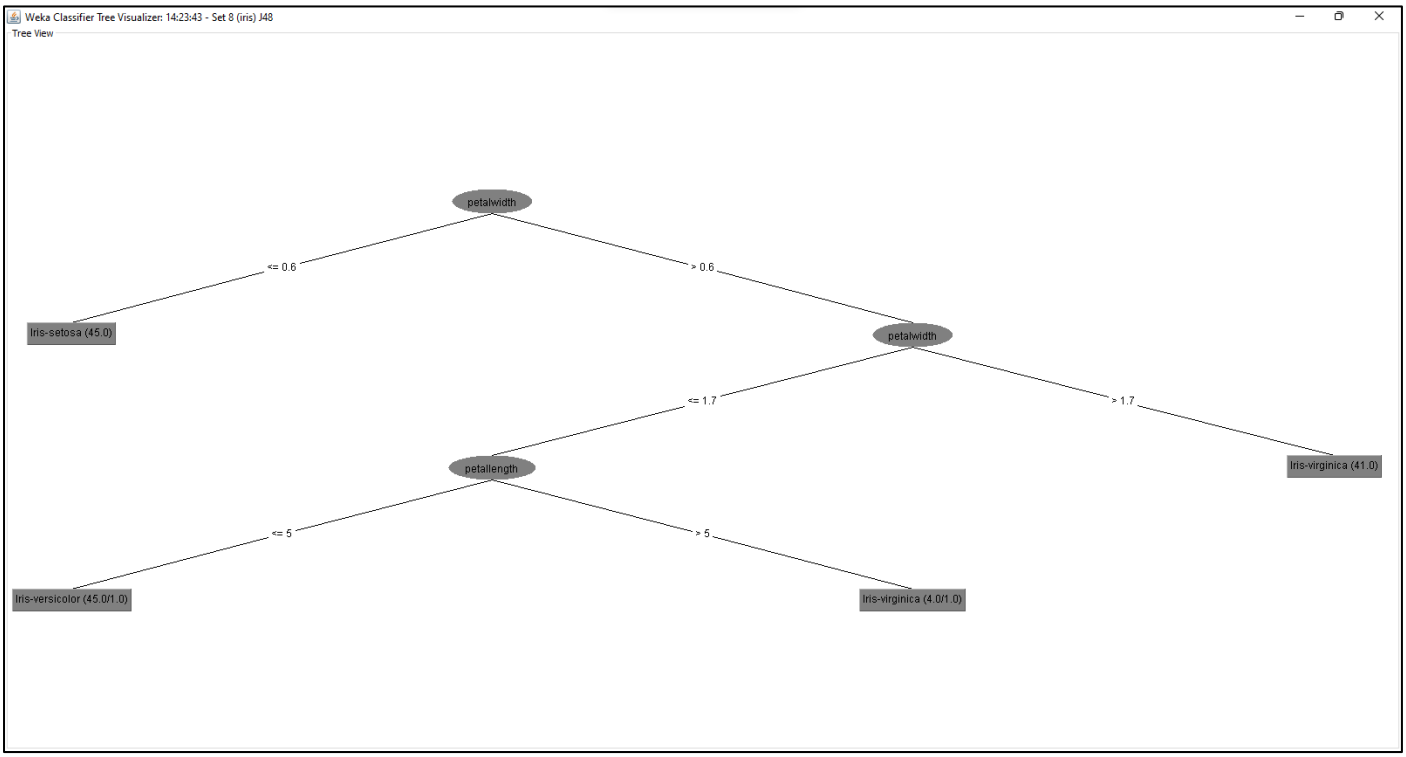
a. Explorer

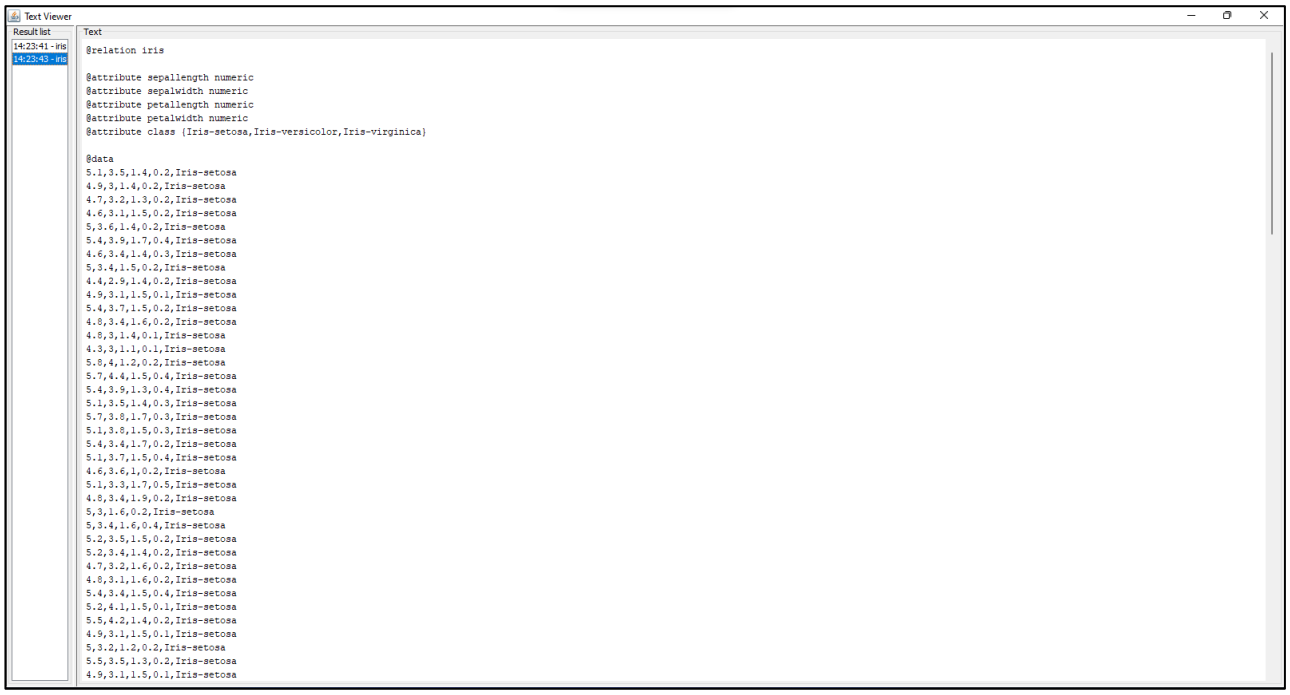


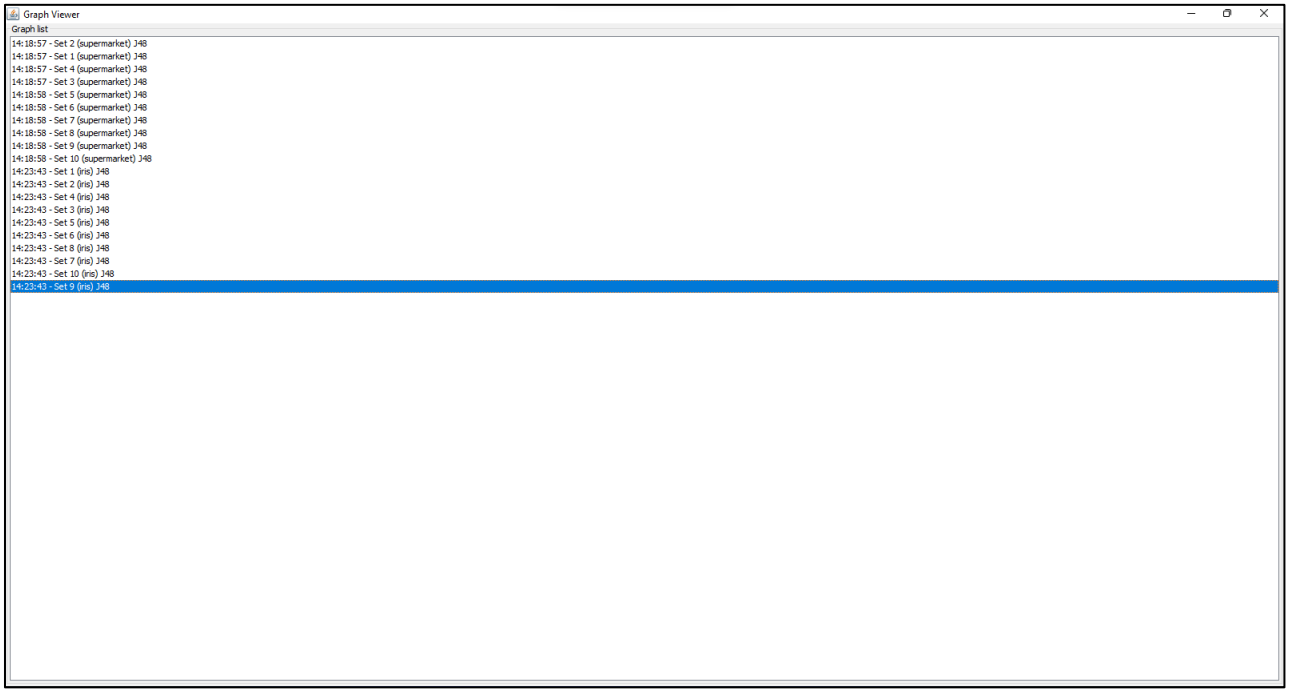


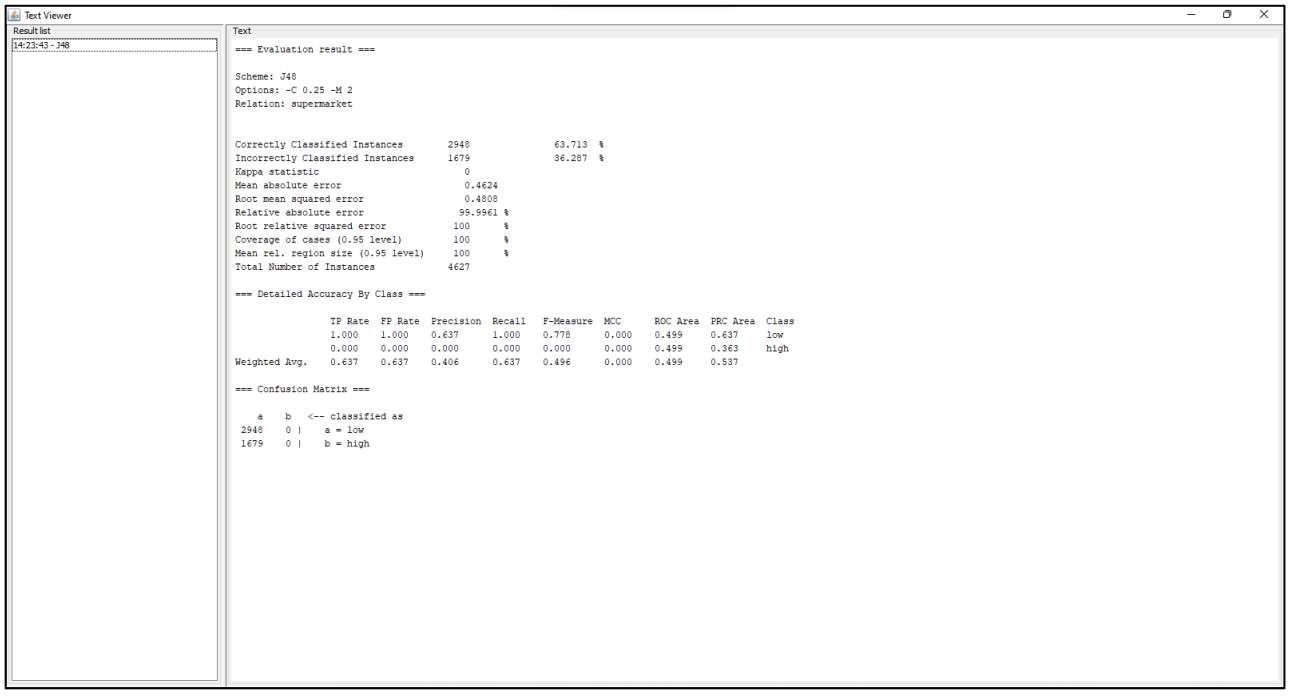
b. Knowledge Base





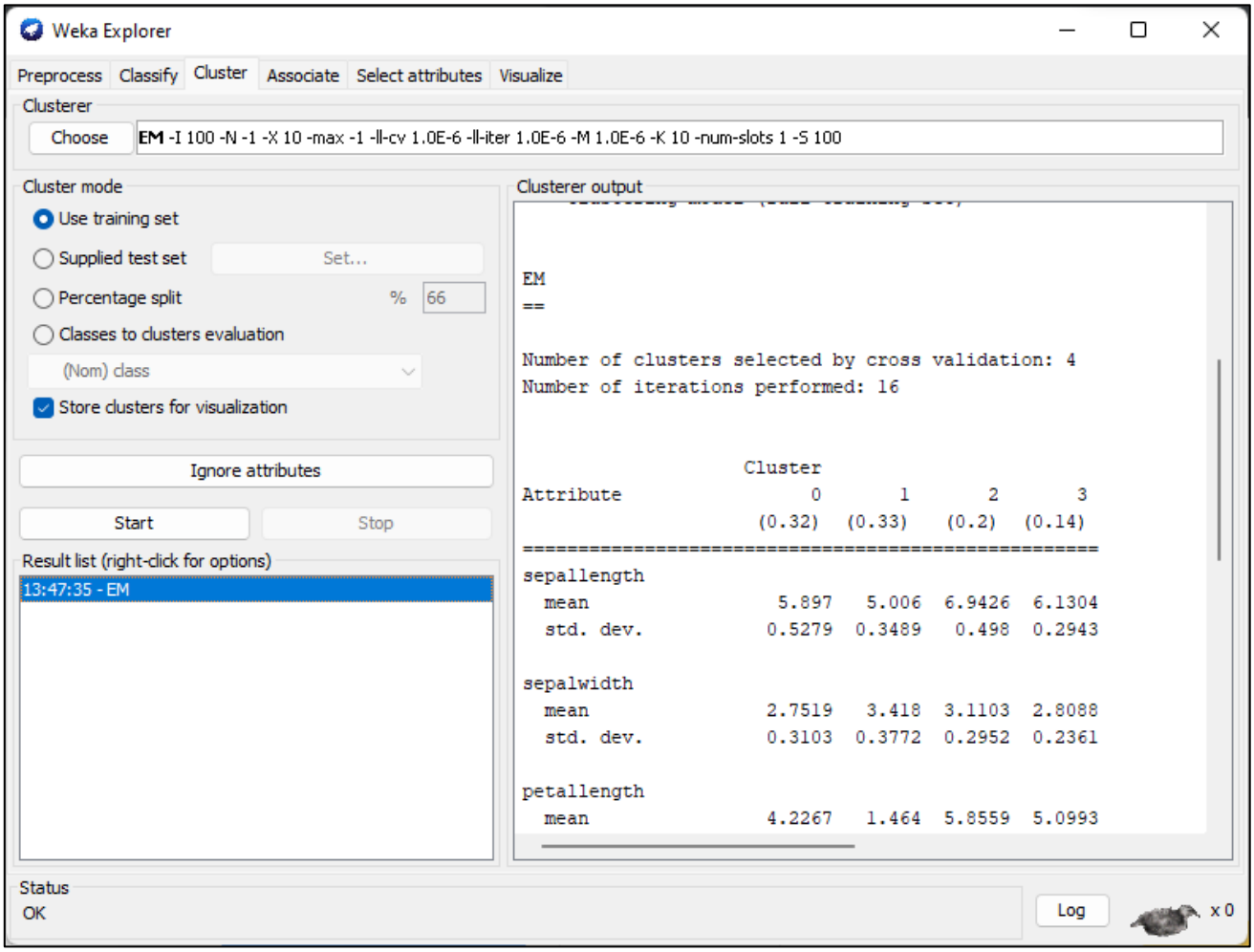

Text Viewer
Result list
14:23:41 - iris
14:23:43 - iris
Text
@relation iris
@attribute sepallength numeric
@attribute sepalwidth numeric
@attribute petallength numeric
@attribute petalwidth numeric
@attribute class {Iris-setosa,Iris-versicolor,Iris-virginica}
@data
5.1,3.5,1.4,0.2,Iris-setosa
4.9,3,1.4,0.2,Iris-setosa
4.7,3.2,1.3,0.2,Iris-setosa
4.6,3.1,1.5,0.2,Iris-setosa
5,3.6,1.4,0.2,Iris-setosa
5.4,3.9,1.7,0.4,Iris-setosa
4.6,3.4,1.4,0.3,Iris-setosa
5,3.4,1.5,0.2,Iris-setosa
4.4,2.9,1.4,0.2,Iris-setosa
4.9,3.1,1.5,0.1,Iris-setosa
5.4,3.7,1.5,0.2,Iris-setosa
4.8,3.4,1.6,0.2,Iris-setosa
4.8,3,1.4,0.1,Iris-setosa
4.3,3,1.1,0.1,Iris-setosa
5.8,4,1.2,0.2,Iris-setosa
5.7,4.4,1.5,0.4,Iris-setosa
5.4,3.9,1.3,0.4,Iris-setosa
5.1,3.5,1.4,0.3,Iris-setosa
5.7,3.8,1.7,0.3,Iris-setosa
5.1,3.8,1.5,0.3,Iris-setosa
5.4,3.4,1.7,0.2,Iris-setosa
5.1,3.7,1.5,0.4,Iris-setosa
4.6,3.6,1,0.2,Iris-setosa
5.1,3.3,1.7,0.5,Iris-setosa
4.8,3.4,1.9,0.2,Iris-setosa
5,3,1.6,0.2,Iris-setosa
5,3.4,1.6,0.4,Iris-setosa
5.2,3.5,1.5,0.2,Iris-setosa
5.2,3.4,1.4,0.2,Iris-setosa
4.7,3.2,1.6,0.2,Iris-setosa
4.8,3.1,1.6,0.2,Iris-setosa
5.4,3.4,1.5,0.4,Iris-setosa
5.2,4.1,1.5,0.1,Iris-setosa
5.5,4.2,1.4,0.2,Iris-setosa
4.9,3.1,1.5,0.1,Iris-setosa
5,3.2,1.2,0.2,Iris-setosa
5.5,3.5,1.3,0.2,Iris-setosa
4.9,3.1,1.5,0.1,Iris-setosa

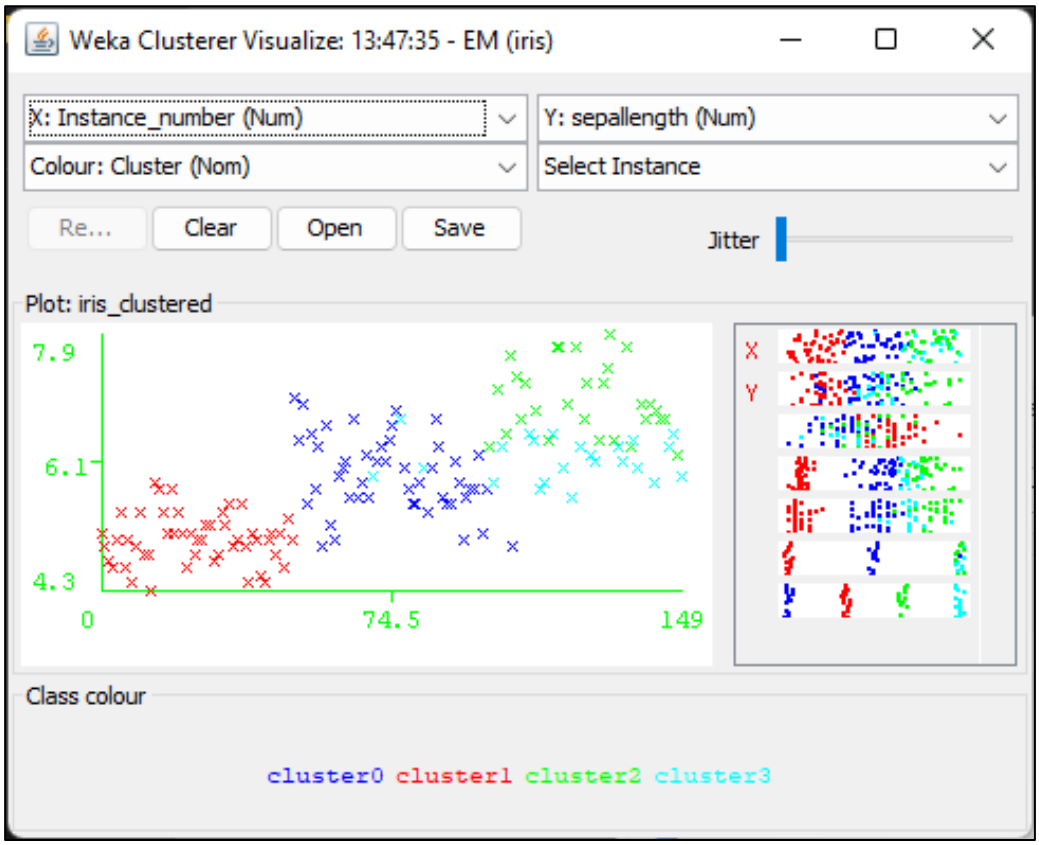

Graph Viewer
Graph list
14:18:57 - Set 2 (supermarket) J48
14:18:57 - Set 1 (supermarket) J48
14:18:57 - Set 4 (supermarket) J48
14:18:57 - Set 3 (supermarket) J48
14:18:58 - Set 5 (supermarket) J48
14:18:58 - Set 6 (supermarket) J48
14:18:58 - Set 7 (supermarket) J48
14:18:58 - Set 8 (supermarket) J48
14:18:58 - Set 9 (supermarket) J48
14:18:58 - Set 10 (supermarket) J48
14:23:43 - Set 1 (iris) J48
14:23:43 - Set 2 (iris) J48
14:23:43 - Set 4 (iris) J48
14:23:43 - Set 3 (iris) J48
14:23:43 - Set 5 (iris) J48
14:23:43 - Set 6 (iris) J48
14:23:43 - Set 8 (iris) J48
14:23:43 - Set 7 (iris) J48
14:23:43 - Set 10 (iris) J48
14:23:43 - Set 9 (iris) J48


Text Viewer
Result list
14:23:43 - J48
Text
=== Evaluation result ===
Scheme: J48
Options: -C 0.25 -M 2
Relation: supermarket
Correctly Classified Instances 2948 63.713 %
Incorrectly Classified Instances 1679 36.287 %
Kappa statistic 0
Mean absolute error 0.4624
Root mean squared error 0.4808
Relative absolute error 99.9961 %
Root relative squared error 100 %
Coverage of cases (0.95 level) 100 %
Mean rel. region size (0.95 level) 100 %
Total Number of Instances 4627
=== Detailed Accuracy By Class ===
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class
1.000 1.000 0.637 1.000 0.778 0.000 0.499 0.637 low
0.000 0.000 0.000 0.000 0.000 0.000 0.499 0.363 high
Weighted Avg. 0.637 0.637 0.406 0.637 0.496 0.000 0.499 0.537
=== Confusion Matrix ===
a b <-- classified as
2948 0 | a = low
1679 0 | b = high

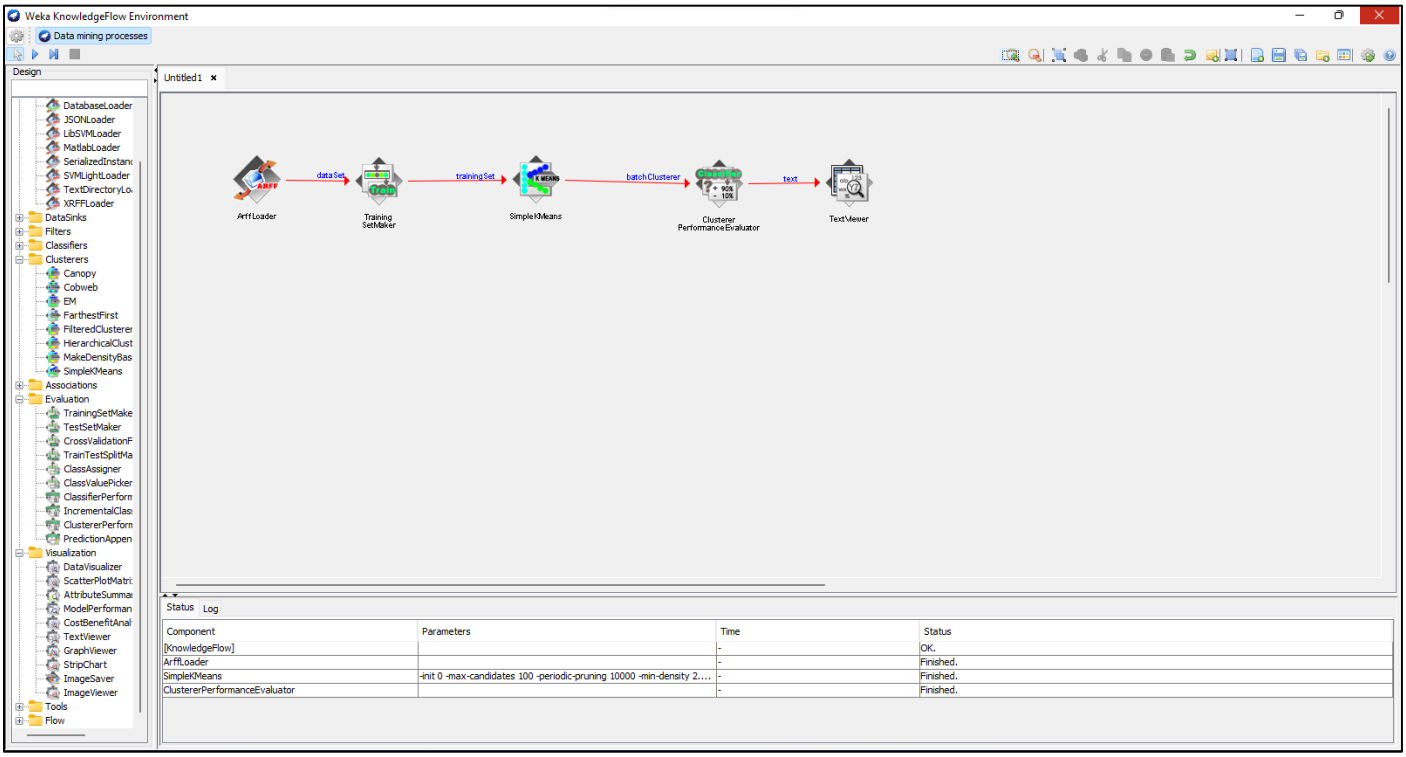
3. Weka clustering Using K-Means

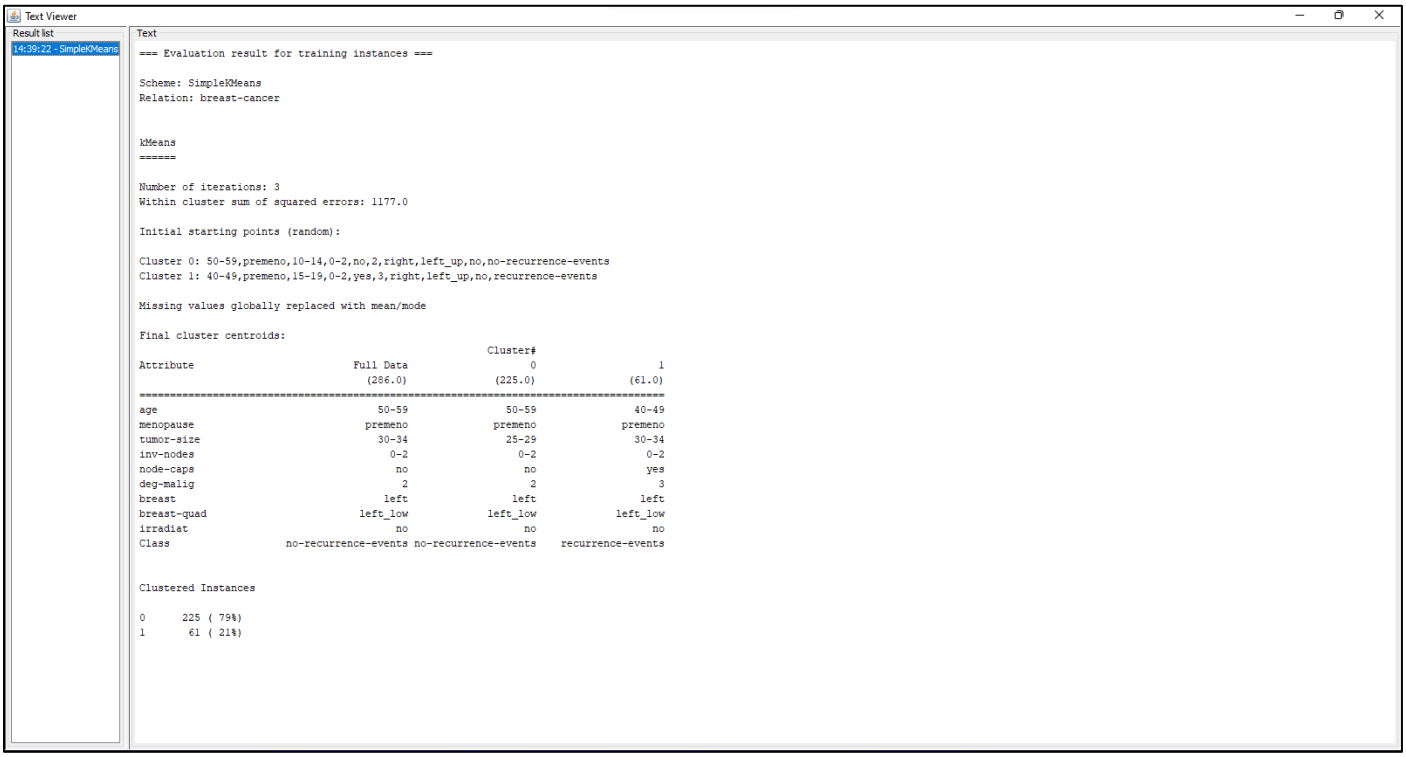
a. Explorer





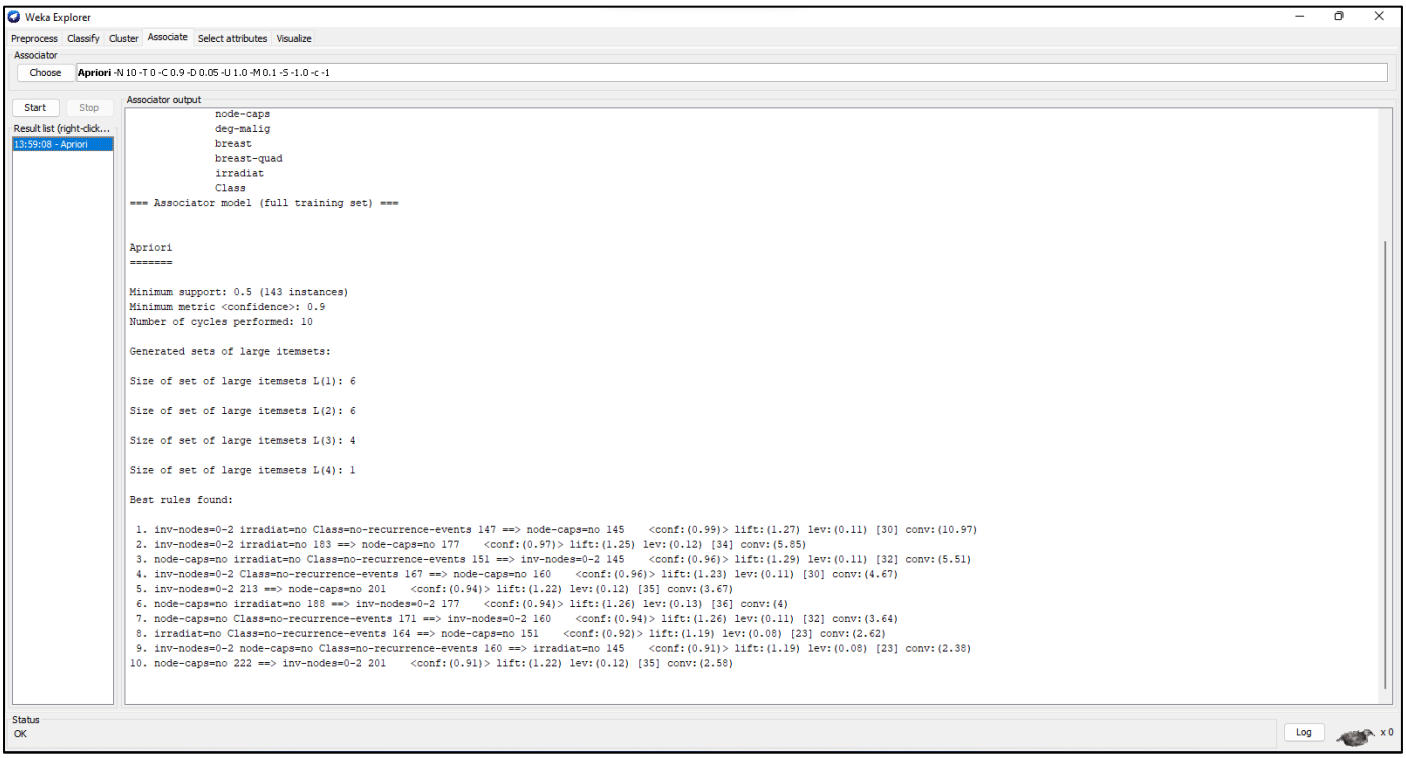
b. Knowledge Base

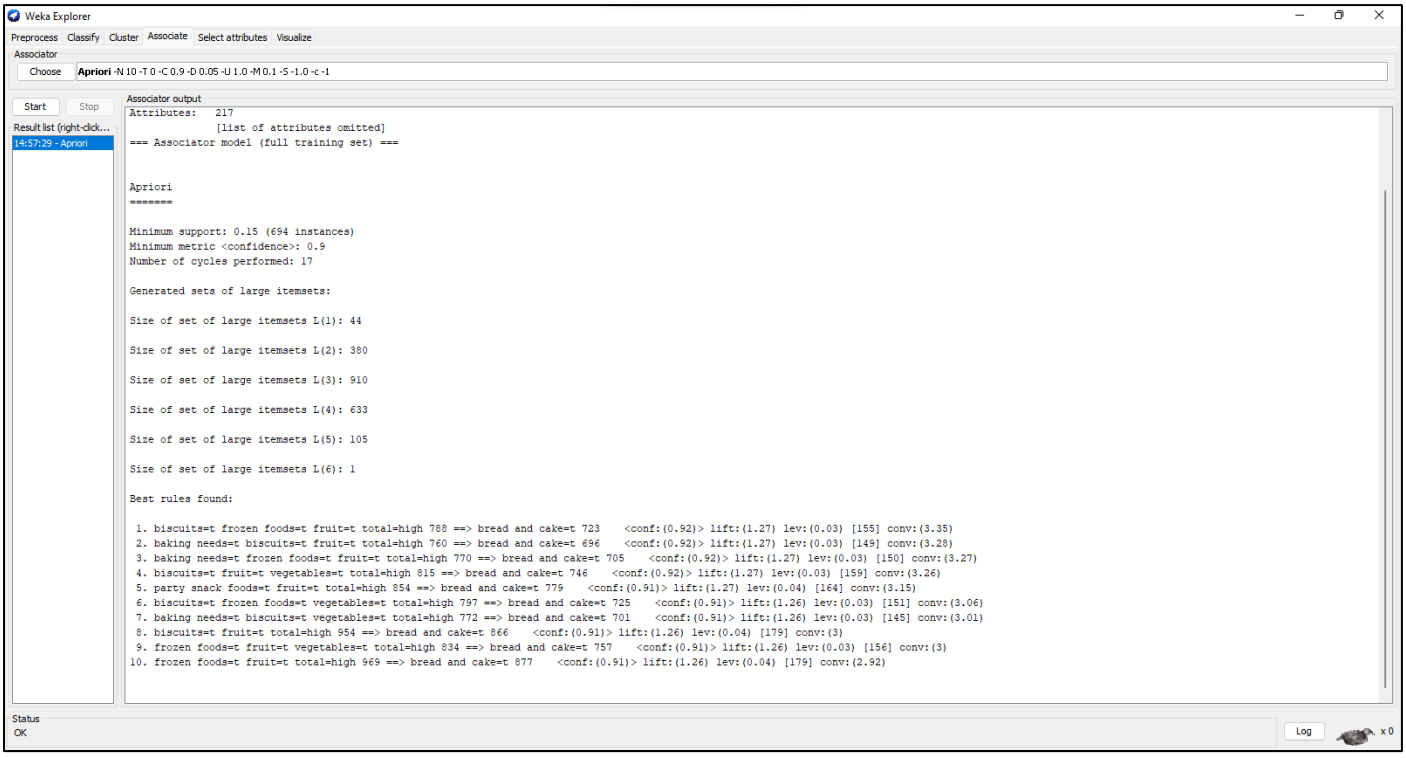




4. Weka Association Using Apriori

a. Explorer





b. Knowledge Base