

## DWDM

### WEKA – PROGRAM 25

The screenshot shows the Weka Explorer application window. The 'Associate' tab is selected in the top menu. The 'Associator' section shows the 'Apriori' algorithm chosen with the command: `Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1`. The 'Start' button is highlighted. The 'Result list' on the left shows '17:30:23 - Apriori' selected. The main output area displays the following text:

```
=== Run information ===

Scheme:      weka.associations.Apriori -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1
Relation:    shopping
Instances:   8
Attributes:  5
              milk
              bread
              honey
              ghee
              jam

=== Associator model (full training set) ===

Apriori
=====

Minimum support: 0.4 (3 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 12

Generated sets of large itemsets:

Size of set of large itemsets L(1): 7

Size of set of large itemsets L(2): 13

Size of set of large itemsets L(3): 7

Size of set of large itemsets L(4): 1

Best rules found:

1. honey=no 4 ==> bread=yes 4 <conf: (1)> lift: (1.33) lev: (0.13) [1] conv: (1)
```

The status bar at the bottom shows 'Status OK' and a 'Log' button.

Weka Explorer

Preprocess   Classify   Cluster   **Associate**   Select attributes   Visualize

Associator

Choose **Apriori** -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 0.1 -S -1.0 -c -1

Start   Stop

Result list (right-click for ...)

17:30:23 - Apriori

Associator output

```
=== Associator model (full training set) ===

Apriori
=====

Minimum support: 0.4 (3 instances)
Minimum metric <confidence>: 0.9
Number of cycles performed: 12

Generated sets of large itemsets:

Size of set of large itemsets L(1): 7

Size of set of large itemsets L(2): 13

Size of set of large itemsets L(3): 7

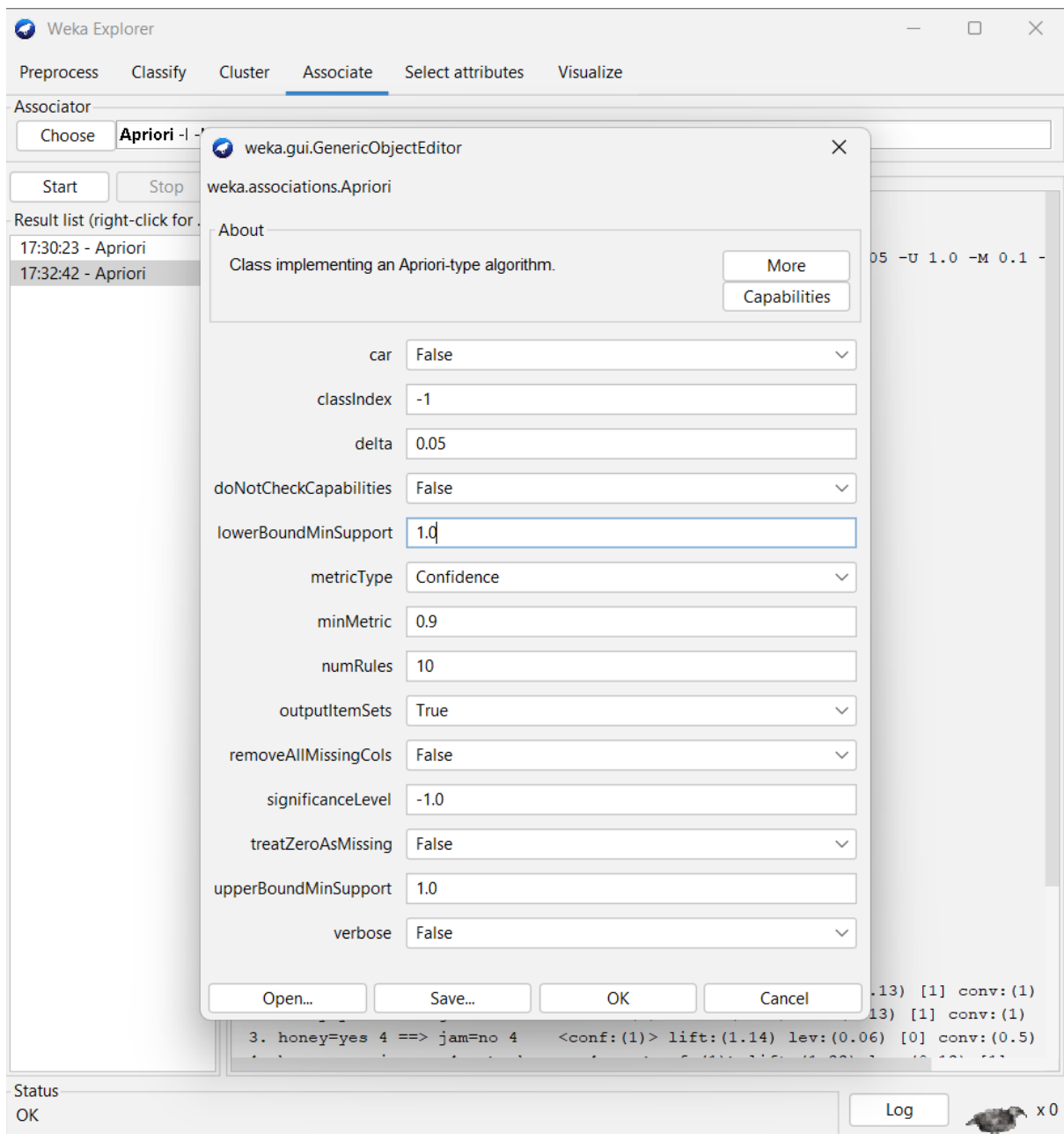
Size of set of large itemsets L(4): 1

Best rules found:

1. honey=no 4 ==> bread=yes 4   <conf:(1)> lift:(1.33) lev:(0.13) [1] conv:(1)
2. honey=yes 4 ==> ghee=no 4   <conf:(1)> lift:(1.33) lev:(0.13) [1] conv:(1)
3. honey=yes 4 ==> jam=no 4   <conf:(1)> lift:(1.14) lev:(0.06) [0] conv:(0.5)
4. honey=yes jam=no 4 ==> ghee=no 4   <conf:(1)> lift:(1.33) lev:(0.13) [1] conv:(1)
5. honey=yes ghee=no 4 ==> jam=no 4   <conf:(1)> lift:(1.14) lev:(0.06) [0] conv:(0.5)
6. honey=yes 4 ==> ghee=no jam=no 4   <conf:(1)> lift:(1.6) lev:(0.19) [1] conv:(1.5)
7. milk=no 3 ==> bread=yes 3   <conf:(1)> lift:(1.33) lev:(0.09) [0] conv:(0.75)
8. milk=no 3 ==> jam=no 3   <conf:(1)> lift:(1.14) lev:(0.05) [0] conv:(0.38)
9. milk=yes honey=yes 3 ==> ghee=no 3   <conf:(1)> lift:(1.33) lev:(0.09) [0] conv:(0.75)
10. milk=yes honey=yes 3 ==> jam=no 3   <conf:(1)> lift:(1.14) lev:(0.05) [0] conv:(0.38)
```

Status

OK   Log   x0



Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Associator

Choose

Apriori -I -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 1.0 -S -1.0 -c -1

Start

Stop

Result list (right-click for ...)

17:30:23 - Apriori

17:32:42 - Apriori

17:34:41 - Apriori

Associator output

=== Run information ===

Scheme: weka.associations.Apriori -I -N 10 -T 0 -C 0.9 -D 0.05 -U 1.0 -M 1.0

Relation: shopping

Instances: 8

Attributes: 5

milk

bread

honey

ghee

jam


=== Associator model (full training set) ===

No large itemsets and rules found!

Status

OK

Log

 x 0