

Classifier

Choose LWL -U 0 -K -1 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\" -W weka.classifiers.trees.DecisionSt

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation Folds

☐ Percentage split %

(Num) soc

Result list (right-click for options)

- 15:00:29 - rules.DecisionTable
- 15:00:42 - rules.M5Rules
- 15:01:03 - trees.RandomTree
- 15:01:17 - trees.DecisionStump
- 15:01:38 - functions.SMOreg
- 15:01:52 - functions.MultilayerPerceptron
- 15:02:01 - functions.LinearRegression
- 15:02:18 - functions.GaussianProcesses
- 15:02:45 - lazy.IBk
- 15:02:56 - lazy.KStar

Classifier output

```

branch
regno
phy
chem
math
sci
soc

Test mode:      evaluate on training data

=== Classifier model (full training set) ===

KStar Beta Verion (0.1b).
Copyright (c) 1995-97 by Len Trigg (trigg@cs.waikato.ac.nz).
Java port to Weka by Abdelaziz Mahoui (aml14@cs.waikato.ac.nz).

KStar options : -B 20 -M a

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correlation coefficient          1
Mean absolute error              0.0002
Root mean squared error         0.0005
Relative absolute error         0.0023 %
Root relative squared error     0.004 %
Total Number of Instances       7
Ignored Class Unknown Instances 1
    
```

Status

OK

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

Choose

IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Test options

Use training set

Supplied test set

Cross-validation

Percentage split

Folds

%

10

66

More options...

(Num) soc

Start

Stop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

15:01:17 - trees.DecisionStump

15:01:38 - functions.SMOreg

15:01:52 - functions.MultilayerPerceptron

15:02:01 - functions.LinearRegression

15:02:18 - functions.GaussianProcesses

15:02:45 - lazy.IBk

Classifier output

name

branch

regno

phy

chem

math

sci

soc

Test mode: evaluate on training data

=== Classifier model (full training set) ===

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correlation coefficient

Mean absolute error

Root mean squared error

Relative absolute error

Root relative squared error

Total Number of Instances

Ignored Class Unknown Instances

1

0

0

0

0

7

1

%

%

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

ChooseGaussianProcesses-L 1.0 -N 0 -K "weka.classifiers.functions.supportVector.PolyKernel -E 1.0 -C 250007" -S 1

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds10

%66

More options...

(Num) soc

Start

Stop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

15:01:17 - trees.DecisionStump

15:01:38 - functions.SMOreg

15:01:52 - functions.MultilayerPerceptron

15:02:01 - functions.LinearRegression

15:02:18 - functions.GaussianProcesses

Classifier output

Kernel used:

Linear Kernel: $K(x,y) = \langle x,y \rangle$

All values shown based on: Normalize training data

Average Target Value : 0.4571428571428572

Inverted Covariance Matrix:

Lowest Value = -0.12297573221523138

Highest Value = 0.4780622867999899

Inverted Covariance Matrix * Target-value Vector:

Lowest Value = -0.20461515650560352

Highest Value = 0.1817828162662378

Time taken to build model: 0.02 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correlation coefficient	0.9969
Mean absolute error	4.1848
Root mean squared error	5.2228
Relative absolute error	41.6775 %
Root relative squared error	40.512 %
Total Number of Instances	7
Ignored Class Unknown Instances	1

Status

OK

Log

Classifier

Choose

LinearRegression -S 0 -R 1.0E-8 -num-decimal-places 4

Test options

☒ Use training set

☐ Supplied test set

Set...

☐ Cross-validation

Folds 10

☐ Percentage split

% 66

More options...

(Num) soc

Start

Stop

- Result list (right-click for options)
- 15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

15:01:17 - trees.DecisionStump

15:01:38 - functions.SMOreg

15:01:52 - functions.MultilayerPerceptron

15:02:01 - functions.LinearRegression

Classifier output

soc =

0.6058 * s.no +

3.6963 * name=veera,seetha,gama,lakshmi,rama,john +

2.0312 * name=seetha,gama,lakshmi,rama,john +

1.6569 * name=gama,lakshmi,rama,john +

1.6569 * name=lakshmi,rama,john +

4.9253 * name=rama,john +

10.66 * name=john +

0.6058 * regno +

0.6058 * phy +

0.2499 * chem +

-0.0034 * math +

-0.4395 * sci +

-11650900.5975

Time taken to build model: 0.02 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient

Mean absolute error

Root mean squared error

Relative absolute error

Root relative squared error

Total Number of Instances

Ignored Class Unknown Instances

1

0

0

0 %

0 %

7

1

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

ChooseSMOreg -C 1.0 -N 0 -I "weka.classifiers.functions.supportVector.RegSMOImproved -T 0.001 -V -P 1.0E-12 -L 0.001 -W 1" -K "weka.classifiers.functions.supportVector.PolyKernel"

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds10

%66

More options...

(Num) soc

StartStop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

15:01:17 - trees.DecisionStump

15:01:38 - functions.SMOreg

Classifier output

-0.0806 * (normalized) name=veera

+0.1253 * (normalized) name=rama

-0.0665 * (normalized) name=seetha

+0 * (normalized) name=gama

+0 * (normalized) branch

+0.0767 * (normalized) regno

+0.0767 * (normalized) phy

+0.3676 * (normalized) chem

+0.0199 * (normalized) math

-0.0928 * (normalized) sci

+0.1964

Number of kernel evaluations: 28 (86.73% cached)

Time taken to build model: 0.11 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correlation coefficient

Mean absolute error

Root mean squared error

Relative absolute error

Root relative squared error

Total Number of Instances

Ignored Class Unknown Instances

1

0.0365

0.0425

0.3632 %

0.3298 %

7

1

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

ChooseDecisionStump

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds10

%66

More options...

(Num) soc

Start

Stop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

15:01:17 - trees.DecisionStump

Classifier output

chem

math

sci

soc

Test mode: evaluate on training data

=== Classifier model (full training set) ===

Decision Stump

Classifications

s.no <= 2.5 : 16.5

s.no > 2.5 : 40.0

s.no is missing : 33.285714285714285

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient

Mean absolute error

Root mean squared error

Relative absolute error

Root relative squared error

Total Number of Instances

Ignored Class Unknown Instances

0.8235

5.8571

7.3144

58.3333 %

56.7357 %


7

1

Status

OK

Log

 x 0

Classifier

ChooseRandomTree -K 0 -M 1.0 -V 0.001 -S 1

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds10

%66

More options...

(Num) soc

StartStop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

15:01:03 - trees.RandomTree

Classifier output

=====

s.no < 2.5

| s.no < 1.5 : 15 (1/0)

| s.no >= 1.5 : 18 (1/0)

s.no >= 2.5

| name = bhavya : 0 (0/0)

| name = sneha : 0 (0/0)

| name = john : 55 (1/0)

| name = lakshmi : 36 (1/0)

| name = veera : 32 (1/0)

| name = rama : 44 (1/0)

| name = seetha : 33 (1/0)

| name = gama : 0 (0/0)

Size of the tree : 13

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient	1	
Mean absolute error	0	
Root mean squared error	0	
Relative absolute error	0	%
Root relative squared error	0	%
Total Number of Instances	7	
Ignored Class Unknown Instances		1

Status

OK

Log

x

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

ChooseM5Rules -M 4.0 -num-decimal-places 4

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds10

%66

More options...

(Num) soc

Start

Stop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

15:00:42 - rules.M5Rules

Classifier output

Rule: 1

IF

s.no > 2.5

THEN

soc =

20.9833 * name=rama,john

+ 28.5167 [5/28.85%]

Rule: 2

soc =

+ 16.5 [2/100%]

Time taken to build model: 0.08 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient

0.9481

Mean absolute error

4.2071

Root mean squared error

4.6787

Relative absolute error

41.9004 %

Root relative squared error

36.2918 %

Total Number of Instances

7


Ignored Class Unknown Instances

1

Status

OK

Log

 x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

Choose

DecisionTable -X 1 -S "weka.attributeSelection.BestFirst -D 1 -N 5"

Test options

☒ Use training set

☐ Supplied test set

☐ Cross-validation

☐ Percentage split

Set...

Folds

%

10

66

More options...

(Num) soc

Start

Stop

Result list (right-click for options)

15:00:29 - rules.DecisionTable

Classifier output

=== Classifier model (full training set) ===

Decision Table:

Number of training instances: 7

Number of Rules : 6

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: 44

Merit of best subset found: 9.361

Evaluation (for feature selection): CV (leave one out)

Feature set: 6,7,9

Time taken to build model: 0.01 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient

Mean absolute error

Root mean squared error

Relative absolute error

Root relative squared error

Total Number of Instances

Ignored Class Unknown Instances

0.9981

0.4286

0.8018

4.2683 %

6.2192 %

7

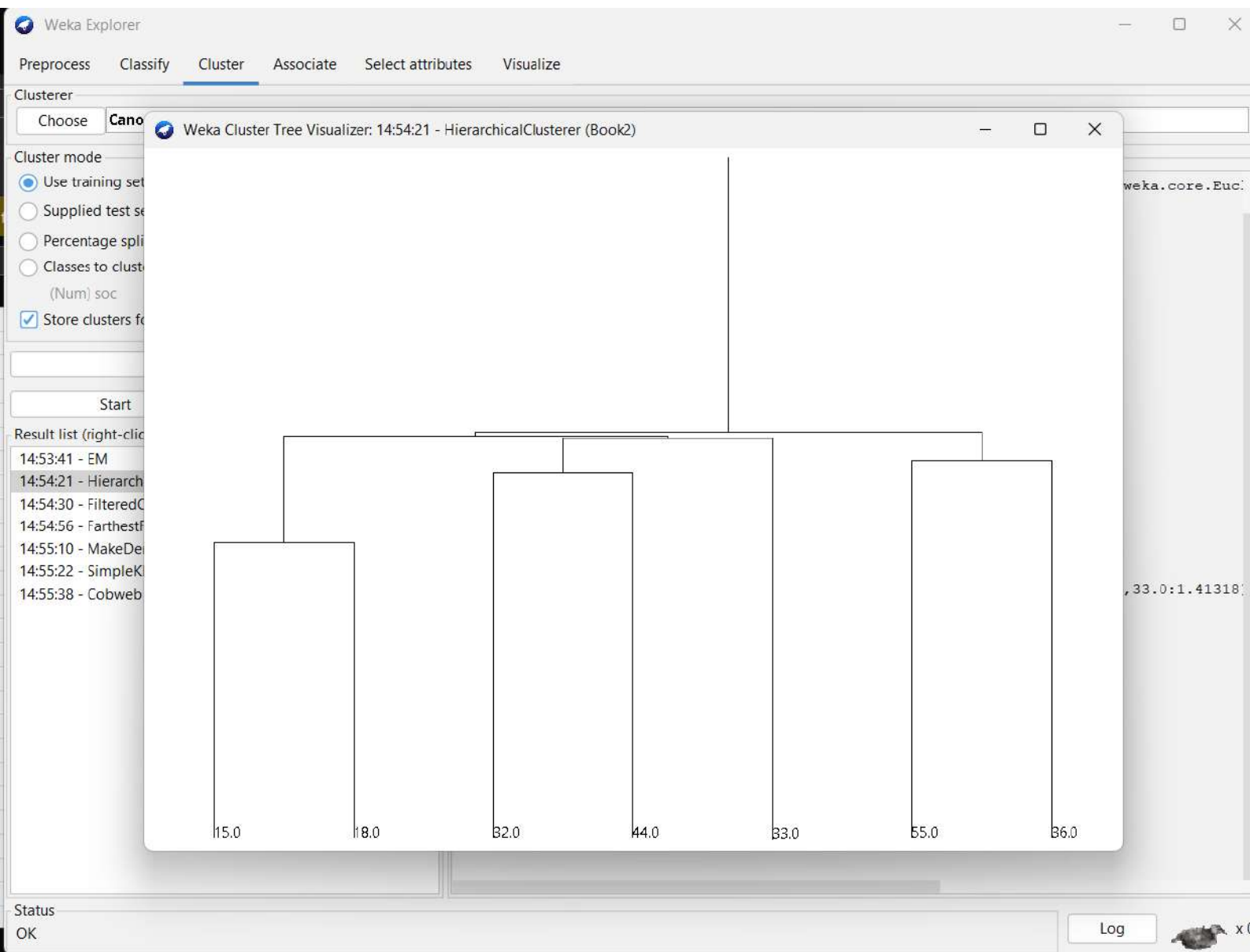
1

Status

OK

Log

x 0



Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Attribute Evaluator

ChooseCfsSubsetEval -P 1 -E 1

Search Method

ChooseBestFirst -D 1 -N 5

Attribute Selection Mode

☒ Use full training set

Folds10

Seed1

☐ Cross-validation

No class

StartStop

Result list (right-click for options)

14:57:57 - BestFirst + CfsSubsetEval

Attribute selection output

name
branch
regno
phy
chem
math
sci
soc

Evaluation mode: evaluate on all training data

=== Attribute Selection on all input data ===

Search Method:
Best first.
Start set: no attributes
Search direction: forward
Stale search after 5 node expansions
Total number of subsets evaluated: 38
Merit of best subset found: 1

Attribute Subset Evaluator (supervised, Class (numeric): 9 soc):
CFS Subset Evaluator
Including locally predictive attributes

Selected attributes: 1,6 : 2
s.no
chem

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Associator

Choose

FilteredAssociator

-F "weka.filters.MultiFilter -F \"weka.filters.unsupervised.attribute.ReplaceMissingValues \" -S 1\" -c -1 -W weka.associations.Apriori -- -N 10 -T 0 -C 0.9 -D

Start

Stop

Result list (right-click for op...

14:57:24 - FilteredAssociator

Associator output

=== Run information ===

Scheme: weka.associations.FilteredAssociator -F "weka.filters.MultiFilter -F \"weka.filters.unsupervised.at
Relation: Book2
Instances: 8
Attributes: 9
s.no
name
branch
regno
phy
chem
math
sci
soc

Status

See error log

Log

x

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

Choose

Canopy -N -1 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t2 -1.0 -t1 -1.25 -S 1

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split

☐ Classes to clusters evaluation

Set...

% 66

(Num) soc

☒ Store clusters for visualization

Ignore attributes

Start

Stop

Result list (right-click for options)

14:53:41 - EM

14:54:21 - HierarchicalClusterer

14:54:30 - FilteredClusterer

14:54:56 - FarthestFirst

14:55:10 - MakeDensityBasedClusterer

14:55:22 - SimpleKMeans

14:55:38 - Cobweb

Clusterer output

phy

chem

math

sci

soc

Test mode: evaluate on training data

=== Clustering model (full training set) ===

Canopy clustering

=====

Number of canopies (cluster centers) found: 2

T2 radius: 1.314

T1 radius: 1.643

Cluster 0: 1.5,bhavya,cse,19232112.5,20.5,16.5,21,18.5,16.5,{2} <0,1>

Cluster 1: 5.5,veera,cse,19232116.5,24.5,38,13.5,18.5,38,{2} <0,1>

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances


0 2 (25%)

1 6 (75%)

Status

OK

Log

 x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

Choose

Cobweb -A 1.0 -C 0.0028209479177387815 -S 42

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split

☐ Classes to clusters evaluation

Set...

% 66

(Num) soc

☒ Store clusters for visualization

Ignore attributes

Start

Stop

Result list (right-click for options)

14:53:41 - EM

14:54:21 - HierarchicalClusterer

14:54:30 - FilteredClusterer

14:54:56 - FarthestFirst

14:55:10 - MakeDensityBasedClusterer

14:55:22 - SimpleKMeans

14:55:38 - Cobweb

Clusterer output

| leaf 1 [1]

node 0 [8]

| node 2 [2]

| | leaf 3 [1]

| node 2 [2]

| | leaf 4 [1]

node 0 [8]

| leaf 5 [1]

node 0 [8]

| leaf 6 [1]

node 0 [8]

| node 7 [2]

| | leaf 8 [1]

| node 7 [2]

| | leaf 9 [1]

node 0 [8]

| leaf 10 [1]

Time taken to build model (full training data) : 0.02 seconds

=== Model and evaluation on training set ===

Clustered Instances

11 (13%)

31 (13%)

41 (13%)

51 (13%)

61 (13%)

81 (13%)

91 (13%)

101 (13%)

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

Choose

SimpleKMeans -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 2 -A "weka.core.EuclideanDistance -R first-last" -I 500 -num-slots

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split

☐ Classes to clusters evaluation

☒ Store clusters for visualization

Set...

% 66

(Num) soc

Ignore attributes

Start

Stop

Result list (right-click for options)

14:53:41 - EM

14:54:21 - HierarchicalClusterer

14:54:30 - FilteredClusterer

14:54:56 - FarthestFirst

14:55:10 - MakeDensityBasedClusterer

14:55:22 - SimpleKMeans

Clusterer output

Cluster 0: 6,rama,cse,19232117,25,44,15,22,44

Cluster 1: 2,sneha,cse,19232113,21,18,22,18,18

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Full Data	Cluster#	0	1
	(8.0)	(5.0)	(3.0)	
s.no	4.5	5.8	2.3333	
name	bhavya	john	bhavya	
branch	cse	cse	cse	
regno	19232115.5	19232116.8	19232113.3333	
phy	23.5	24.8	21.3333	
chem	31	35.8	23	
math	22.75	20.4	26.6667	
sci	18.875	19.6	17.6667	
soc	33.2857	39.4571	23	

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances

0	5 (63%)
1	3 (38%)

Status

OK

Log

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

Choose

MakeDensityBasedClusterer -M 1.0E-6 -W weka.clusterers.SimpleKMeans -- -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 2 -A

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split

☐ Classes to clusters evaluation

Set...

% 66

(Num) soc

☒ Store clusters for visualization

Ignore attributes

Start

Stop

Result list (right-click for options)

14:53:41 - EM

14:54:21 - HierarchicalClusterer

14:54:30 - FilteredClusterer

14:54:56 - FarthestFirst

14:55:10 - MakeDensityBasedClusterer

Clusterer output

Attribute: s.no

Normal Distribution. Mean = 2.3333 StdDev = 1.2472

Attribute: name

Discrete Estimator. Counts = 2 2 1 2 1 1 1 1 (Total = 11)

Attribute: branch

Discrete Estimator. Counts = 4 (Total = 4)

Attribute: regno

Normal Distribution. Mean = 19232113.3333 StdDev = 1.2472

Attribute: phy

Normal Distribution. Mean = 21.3333 StdDev = 1.2472

Attribute: chem

Normal Distribution. Mean = 23 StdDev = 9.2736

Attribute: math

Normal Distribution. Mean = 26.6667 StdDev = 8.0554

Attribute: sci

Normal Distribution. Mean = 17.6667 StdDev = 1.2472

Attribute: soc

Normal Distribution. Mean = 23 StdDev = 9.2736

Time taken to build model (full training data) : 0.01 seconds

=== Model and evaluation on training set ===

Clustered Instances

05 (63%)

13 (38%)

Log likelihood: -21.40927

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

ChooseFarthestFirst -N 2 -S 1

Cluster mode

☒ Use training set

☐ Supplied test set

Set...

☐ Percentage split

%66

☐ Classes to clusters evaluation

(Num) soc

☒ Store clusters for visualization

Ignore attributes

StartStop

Result list (right-click for options)

14:53:41 - EM

14:54:21 - HierarchicalClusterer

14:54:30 - FilteredClusterer

14:54:56 - FarthestFirst

Clusterer output

regno

phy

chem

math

sci

soc

Test mode: evaluate on training data

=== Clustering model (full training set) ===

FarthestFirst

=====

Cluster centroids:

Cluster 0

6.0 rama cse 1.9232117E7 25.0 44.0 15.0 22.0 44.0

Cluster 1

1.0 bhavya cse 1.9232112E7 20.0 15.0 20.0 19.0 15.0

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances

06 (75%)

12 (25%)

Status

OK

Log

x 0

Clusterer

Choose **FilteredClusterer** -F "weka.filters.AllFilter " -W weka.clusterers.SimpleKMeans -- -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 2 -

Cluster mode

- ☒ Use training set
- ☐ Supplied test set Set...
- ☐ Percentage split % 66
- ☐ Classes to clusters evaluation
- (Num) soc v
- ☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

- 14:53:41 - EM
- 14:54:21 - HierarchicalClusterer
- 14:54:30 - FilteredClusterer**

Clusterer output

Initial starting points (random):

Cluster 0: 6,rama,cse,19232117,25,44,15,22,44

Cluster 1: 2,sneha,cse,19232113,21,18,22,18,18

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Full Data	Cluster#	
	(8.0)	0	1
		(5.0)	(3.0)
s.no	4.5	5.8	2.3333
name	bhavya	john	bhavya
branch	cse	cse	cse
regno	19232115.5	19232116.8	19232113.3333
phy	23.5	24.8	21.3333
chem	31	35.8	23
math	22.75	20.4	26.6667
sci	18.875	19.6	17.6667
soc	33.2857	39.4571	23

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances

0	5 (63%)
1	3 (38%)

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Classifier

ChooseIBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Test options

Use training set

Supplied test set

Set...

Cross-validation

Folds10

Percentage split

%66

More options...

(Num) total

Start

Stop

Result list (right-click for options)

12:48:14 - functions.SMOreg

12:49:25 - rules.DecisionTable

12:56:56 - lazy.IBk

Classifier output

=== Run information ===

Scheme:weka.classifiers.lazy.IBk -K 1 -W 0 -A "weka.core.neighboursearch.LinearNNSearch -A \"weka.core.EuclideanDistance -R first-last\""

Relation:Book1

Instances:5

Attributes:7

i>s.no

name

reg

m1

phy

chem

total

Test mode:10-fold cross-validation

=== Classifier model (full training set) ===

IB1 instance-based classifier

using 1 nearest neighbour(s) for classification

Time taken to build model: 0 seconds

Status

Problem evaluating classifier

Log

Clusterer
Choose **HierarchicalClusterer -N 2 -L SINGLE -P -A "weka.core.EuclideanDistance -R first-last"**

Cluster mode

☒ Use training set

☐ Supplied test set Set...

☐ Percentage split % 66

☐ Classes to clusters evaluation
(Num) total v

☒ Store clusters for visualization

Ignore attributes

Start Stop

- Result list (right-click for options)
- 11:22:48 - EM
 - 11:26:37 - SimpleKMeans
 - 11:28:59 - SimpleKMeans
 - 11:29:36 - SimpleKMeans
 - 11:52:07 - SimpleKMeans
 - 11:52:23 - EM
 - 11:55:07 - HierarchicalClusterer**

Clusterer output

Relation: Book1
Instances: 5
Attributes: 7
 i>s.no
 name
 reg
 m1
 phy
 chem
 total

Test mode: evaluate on training data

=== Clustering model (full training set) ===

Cluster 0
(45.0:1.47528, (48.0:1.37645, 53.0:1.37645):0.09883)

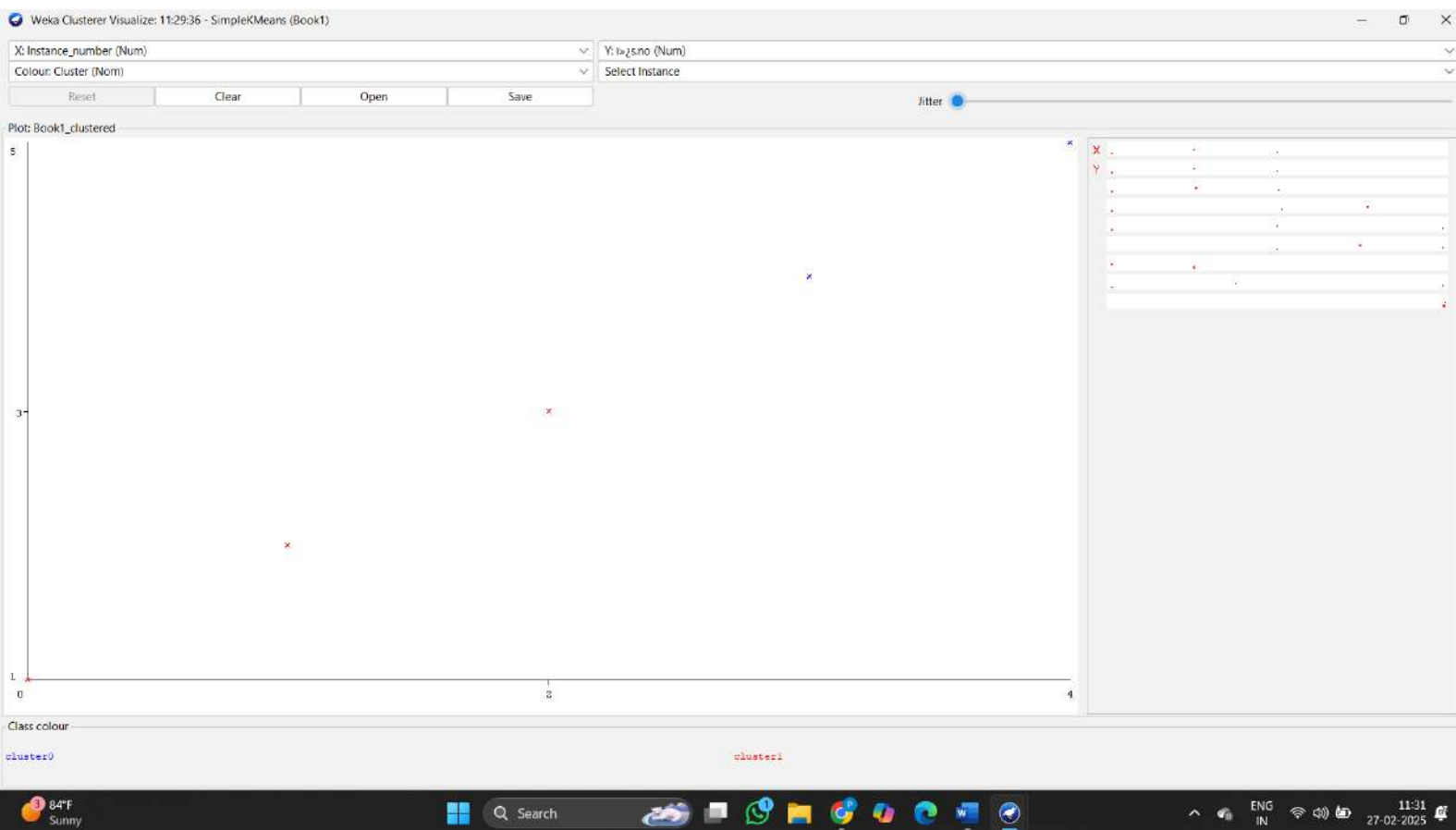
Cluster 1
(47.0:1.56569, 45.0:1.56569)

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===

Clustered Instances

0	3 (60%)
1	2 (40%)



Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

Choose

EM -I 100 -N -1 -X 10 -max -1 -II-cv 1.0E-6 -II-iter 1.0E-6 -M 1.0E-6 -K 10 -num-slots 1 -S 100

Cluster mode

☒ Use training set

☐ Supplied test set

Set...

☐ Percentage split

%

66

☐ Classes to clusters evaluation

(Num) total

▼

☒ Store clusters for visualization

Ignore attributes

Start

Stop

Result list (right-click for options)

11:22:48 - EM

Clusterer output

(1)

=====

i>s.no

mean3

std. dev.1.4142

name

bhavya2

pavani2

lmi2

slmi2

kimi2

[total]10

reg

mean518.4

std. dev.346.5092

m1

mean14

std. dev.2.2804

phy

mean17

std. dev.1.4142

chem

mean16.6

std. dev.1.3565

total

mean47.6

std. dev.2.9394

Status

OK

Log

x 0

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Clusterer

ChooseSimpleKMeans-init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 2 -A "weka.core.EuclideanDistance -R first-last" -I 500 -num-slots 1

Cluster mode

☒ Use training set

☐ Supplied test set

☐ Percentage split

☐ Classes to clusters evaluation

Set...

% 66

▼

☒ Store clusters for visualization

Ignore attributes

StartStop

Result list (right-click for options)

11:22:48 - EM

11:26:37 - SimpleKMeans

Clusterer output

Initial starting points (random):

Cluster 0: 4,slmi,129,13,15,19,47

Cluster 1: 2,pavani,789,15,18,15,48

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Full Data	Cluster#	0	1
	(5.0)	(2.0)	(3.0)	
i>s.no	3	4.5	2	
name	bhavya	slmi	bhavya	
reg	518.4	556.5	493	
m1	14	12.5	15	
phy	17	15.5	18	
chem	16.6	18	15.6667	
total	47.6	46	48.6667	

Time taken to build model (full training data) : 0 seconds

=== Model and evaluation on training set ===


Clustered Instances

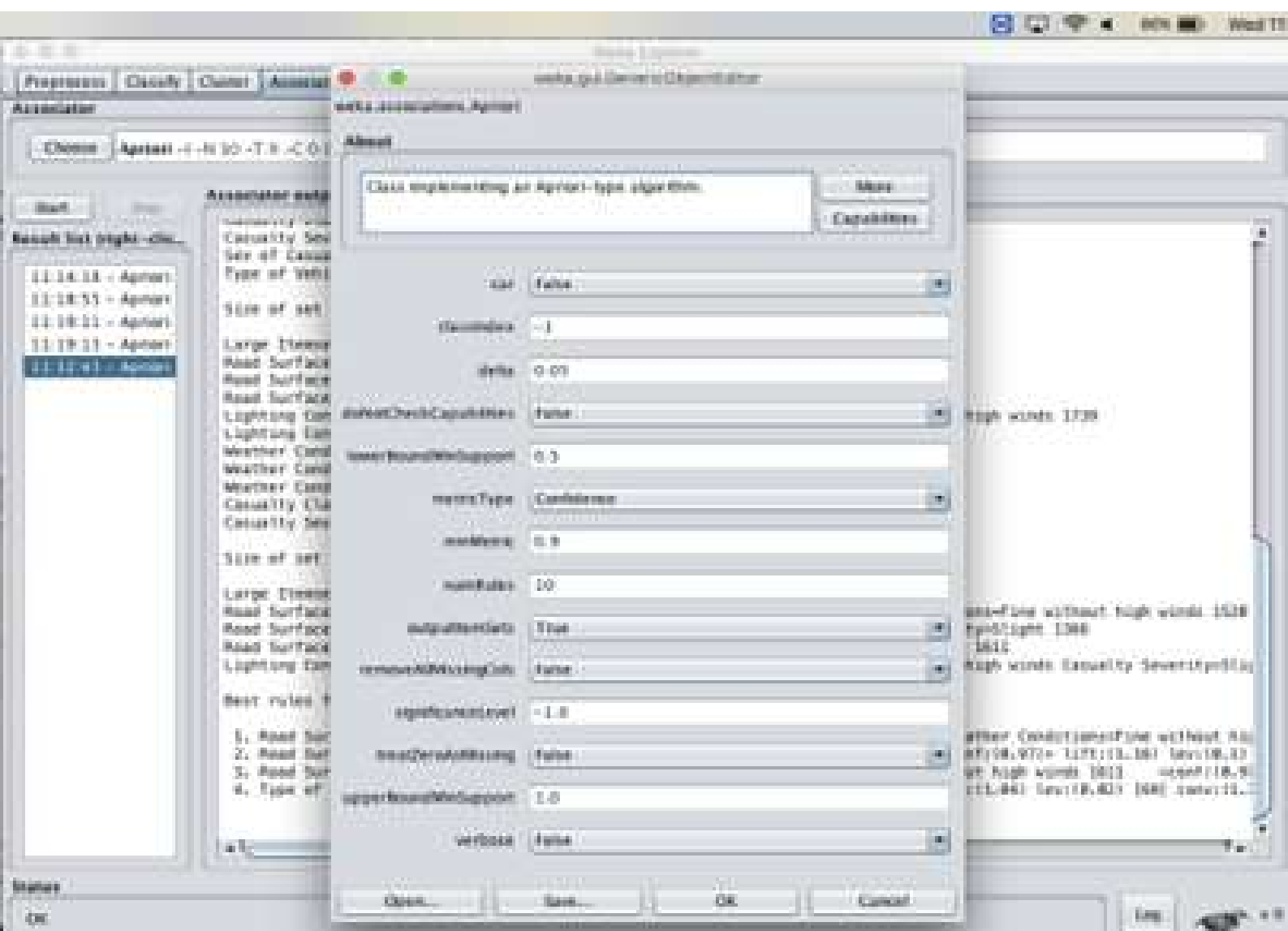
0	2 (40%)
1	3 (60%)

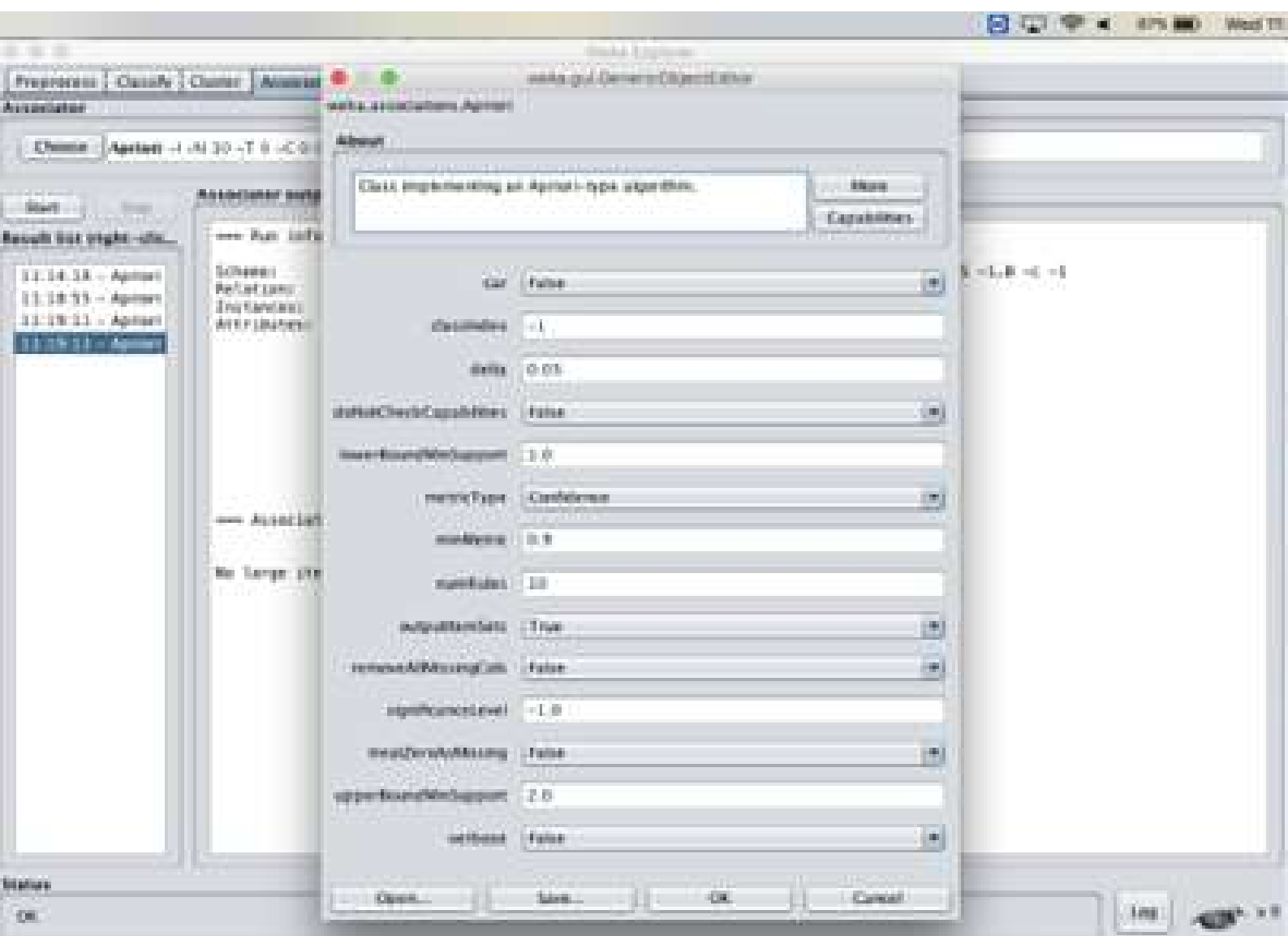
Status

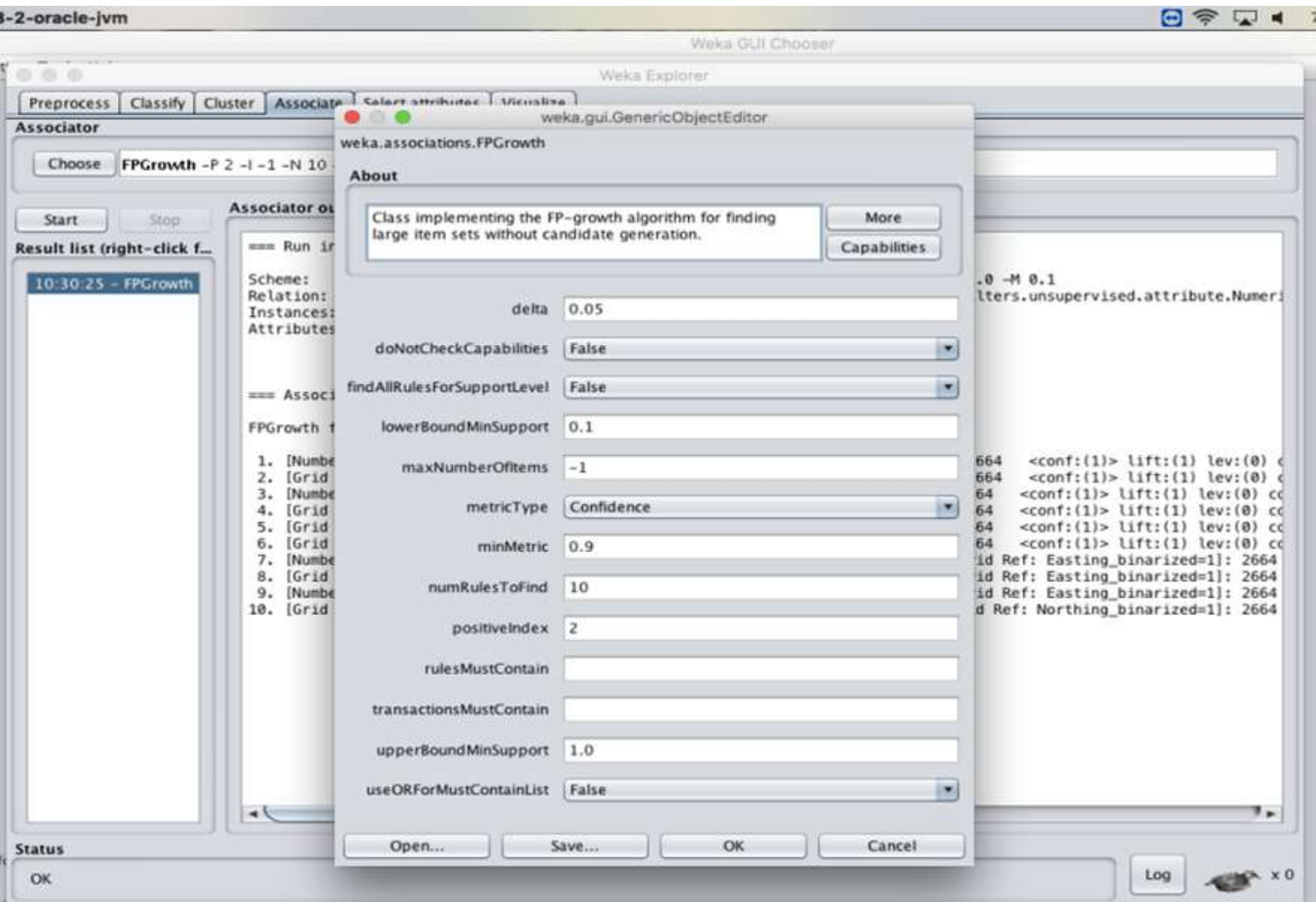
OK

Log

 x 0







2-oracle-jvm

Weka GUI Chooser

Weka Explorer

Preprocess

Classify

Cluster

Associate

Select attributes

Visualize

Associate

Choose: FPGrowth -P 2 -I 1 -M 10 -T 0 -C 0.9 -D 0.05 -O 1.0 -# 0.1

Start

Stop

Result list (right-click F...)

10/30/25 - FPGrowth

Associate output

=== Rule information ===

Scheme: weka.associations.FPGrowth -P 2 -I 1 -M 10 -T 0 -C 0.9 -D 0.05 -O 1.0 -# 0.1

Relation: 2015-weka.filters.unsupervised.attribute.Remove-R1,5,7-13,15-weka.filters.unsupervised.attribute.Numerical

Instances: 2664

Attributes: 3

Grid Ref: Easting_binarized

Grid Ref: Northing_binarized

Number of Vehicles_binarized

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

FPGrowth found 12 rules (displaying top 10)

1. Number of Vehicles_binarized=1: 2664 ==> {Grid Ref: Northing_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

2. {Grid Ref: Northing_binarized=1: 2664 ==> Number of Vehicles_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

3. Number of Vehicles_binarized=1: 2664 ==> {Grid Ref: Easting_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

4. {Grid Ref: Easting_binarized=1: 2664 ==> Number of Vehicles_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

5. {Grid Ref: Northing_binarized=1: 2664 ==> {Grid Ref: Easting_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

6. {Grid Ref: Easting_binarized=1: 2664 ==> {Grid Ref: Northing_binarized=1: 2664 <conf:(1)> lift:(1) lev:(0) c

7. Number of Vehicles_binarized=1: 2664 ==> {Grid Ref: Northing_binarized=1, Grid Ref: Easting_binarized=1: 2664

8. {Grid Ref: Northing_binarized=1: 2664 ==> Number of Vehicles_binarized=1, Grid Ref: Easting_binarized=1: 2664

9. Number of Vehicles_binarized=1, Grid Ref: Northing_binarized=1: 2664 ==> {Grid Ref: Easting_binarized=1: 2664

10. {Grid Ref: Easting_binarized=1: 2664 ==> Number of Vehicles_binarized=1, Grid Ref: Northing_binarized=1: 2664

Status

OK

Log

0

weka-3-8-2-practice-jvm
Weka Explorer

Preprocess
Classify
Cluster
Associate
Select attributes
Visualize

Classifier

Choose Logistic - R 1.0E-3 -M -1 -non-default-places 4

Test options

☐ Use training set
☐ Suspended test set
☒ Cross-validation: Fully 10
☐ Percentage split: % 0.0
More options...

Repeat A/1

Stop

Result list (right-click for options)

11:30:24 - weka.jar
11:38:12 - weka.jar
11:38:44 - weka.jar
11:40:44 - functions.Logistic

Classifier output

Size of the tree : 148
Time taken to build model: 0.83 seconds
--- Evaluation on training set ---
Time taken to test model on training data: 0.83 seconds
--- Summary ---

Correctly Classified Instances	866	86.6	%
Incorrectly Classified Instances	145	14.5	%
Kappa statistic	0.8211		
Mean absolute error	0.1312		
Root mean squared error	0.36		
Relative absolute error	55.8377 %		
Root relative squared error	74.7815 %		
Total Number of Instances	1000		

--- Detailed Accuracy By Class ---

	TP Rate	FP Rate	Precision	Recall	F-Measure	PCI	ROC Area	PRC Area	Class
	0.956	0.388	0.854	0.956	0.980	0.648	0.857	0.686	1
	0.428	0.868	0.857	0.428	0.728	0.648	0.857	0.753	2
Weighted Avg.	0.805	0.278	0.855	0.855	0.847	0.648	0.857	0.848	

--- Confusion Matrix ---
A B -- classified as
866 145 : 1 = 1
145 136 : 2 = 2

Status

OK

Log

weka-3-8-2-oracle-jvm

Weka Explorer

PreprocessClassifyClusterAssociateSelect attributesVisualize

Classifier

ChooseCostSensitiveClassifier -cost-matrix "[0.0 1.0; 1.0 0.0]" -S 1 -W weka.classifiers.rules.ZeroR

Test options

Use training set

Supplied test set

Cross-validation

Folds10

Percentage split

%66

More options...

(Nom) A21

Start

Stop

Result list (right-click for options)

14:17:24 - meta.CostSensitiveClassifier

Classifier output

Cost Matrix

0 1
1 0

Time taken to build model: 0 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances70070%

Incorrectly Classified Instances30030%

Kappa statistic0

Mean absolute error0.4202

Root mean squared error0.4583

Relative absolute error100%

Root relative squared error100%

Total Number of Instances1000

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	1.000	1.000	0.700	1.000	0.824	?	0.500	0.700	1
	0.000	0.000	?	0.000	?	?	0.500	0.300	2
Weighted Avg.	0.700	0.700	?	0.700	?	?	0.500	0.580	

=== Confusion Matrix ===

a b <-- classified as

700 0 | a = 1

300 0 | b = 2

Status

OK

Log

x 0

