

SimplekMean

1) Vote.arff

No of clusters: 2

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 1 -S 10

Cluster mode

☒ Use training set
☐ Supplied test set Set...
☐ Percentage split % 66
☐ Classes to clusters evaluation (Nom) Class
☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

12:32:33 - SimpleKMeans

Cluster output

physician-fee-freeze	n	y	n
el-salvador-aid	y	y	n
religious-groups-in-schools	y	y	n
anti-satellite-test-ban	y	n	y
aid-to-nicaraguan-contras	y	n	y
mx-missile	y	n	y
immigration	y	y	y
synfuels-corporation-cutback	n	n	n
education-spending	n	y	n
superfund-right-to-sue	y	y	n
crime	y	y	n
duty-free-exports	n	n	y
export-administration-act-south-africa	y	y	y
Class	democrat	republican	democrat

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

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

Clustered Instances

0	214 (49%)
1	221 (51%)

No of clusters: 4

Clusterer

Choose **SimpleKMeans** -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 4 -A "weka.core.EuclideanDistance -R first-last" -I 500 -num-slots 1 -S 10

Cluster mode

☒ Use training set
☐ Supplied test set Set...
☐ Percentage split % 66
☐ Classes to clusters evaluation (Nom) Class
☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

12:32:33 - SimpleKMeans
12:34:06 - SimpleKMeans

Cluster output

religious-groups-in-schools	y	y	y	y	n
anti-satellite-test-ban	y	n	y	y	y
aid-to-nicaraguan-contras	y	n	y	y	y
mx-missile	y	n	y	n	y
immigration	y	y	n	n	y
synfuels-corporation-cutback	n	n	n	y	n
education-spending	n	y	n	n	n
superfund-right-to-sue	y	y	n	y	n
crime	y	y	y	y	n
duty-free-exports	n	n	n	n	y
export-administration-act-south-africa	y	y	y	y	y
Class	democrat	republican	democrat	democrat	democrat

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

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

Clustered Instances

0	174 (40%)
1	54 (12%)
2	55 (13%)
3	152 (35%)

2) Diabetes.arff

No of clusters: 2

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 1 -S 10

Cluster mode

☒ Use training set
☐ Supplied test set Set...
☐ Percentage split % 66
☐ Classes to clusters evaluation (Nom) class
☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

12:36:44 - SimpleKMeans

Clusterer output

Final cluster centroids:

Attribute	Full Data (768.0)	Cluster# 0 (500.0)	1 (268.0)
preg	3.8451	3.298	4.8657
plas	120.8945	109.98	141.2575
pres	69.1055	68.184	70.8246
skin	20.5365	19.664	22.1642
insu	79.7995	68.792	100.3358
mass	31.9926	30.3042	35.1425
pedi	0.4719	0.4297	0.5505
age	33.2409	31.19	37.0672
class		tested_negative	tested_positive

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

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

Clustered Instances

0	500 (65%)
1	268 (35%)

No of clusters: 4

Clusterer

Choose SimpleKMeans -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 4 -A "weka.core.EuclideanDistance -R first-last" -I 500 -num-slots 1 -S 10

Cluster mode

☒ Use training set
☐ Supplied test set Set...
☐ Percentage split % 66
☐ Classes to clusters evaluation (Nom) class
☒ Store clusters for visualization

Ignore attributes

Start Stop

Result list (right-click for options)

12:36:44 - SimpleKMeans
12:37:31 - SimpleKMeans

Clusterer output

Attribute	Full Data (768.0)	0 (166.0)	1 (268.0)	2 (220.0)	3 (114.0)
preg	3.8451	2.1446	4.8657	2.1182	7.2544
plas	120.8945	119.4699	141.2575	99.6636	116.0702
pres	69.1055	71.8554	70.8246	61.1182	76.4737
skin	20.5365	32.6807	22.1642	12.3864	14.7544
insu	79.7995	137.512	100.3358	34.8591	34.2105
mass	31.9926	35.3994	35.1425	26.2623	30.6851
pedi	0.4719	0.4924	0.5505	0.3939	0.4076
age	33.2409	27.247	37.0672	25.3636	48.1754
class		tested_negative	tested_positive	tested_negative	tested_negative

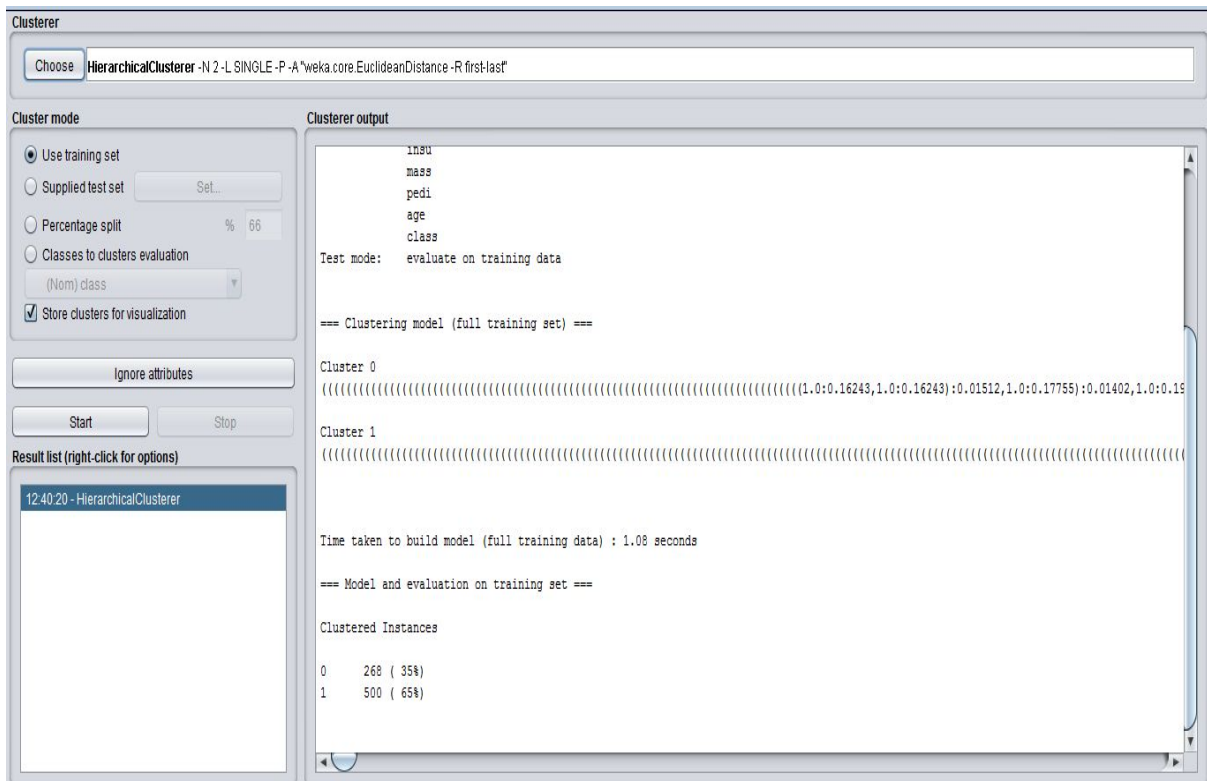
Time taken to build model (full training data) : 0.02 seconds

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

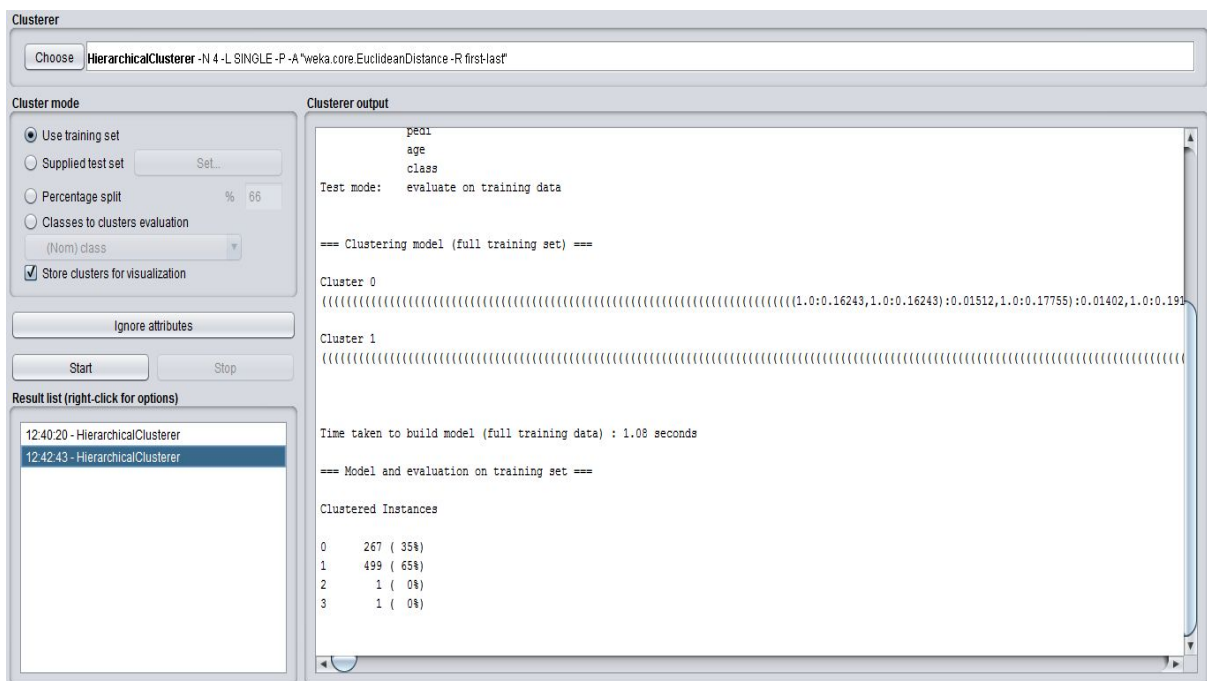
Clustered Instances

0	166 (22%)
1	268 (35%)
2	220 (29%)
3	114 (15%)

1) Diabetes.arff
No of clusters: 2



No of clusters: 4



No of clusters: 2

