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COURSE CODE: CSA1654

COURSE: DATA WAREHOUSE AND DATA MINING FOR MEDICAL APPLICATION

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 "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)

- 21:11:45 - HierarchicalClusterer
- 21:39:56 - FilteredClusterer
- 21:40:17 - MakeDensityBasedClusterer

Clusterer output

Number of iterations: 7

Within cluster sum of squared errors: 62.1436882815797

Initial starting points (random):

Cluster 0: 6.1,2.9,4.7,1.4,Iris-versicolor

Cluster 1: 6.2,2.9,4.3,1.3,Iris-versicolor

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Full Data	Cluster# 0	Cluster# 1
	(150.0)	(100.0)	(50.0)
sepal.length	5.8433	6.262	5.006
sepal.width	3.054	2.872	3.418
petal.length	3.7587	4.906	1.464
petal.width	1.1987	1.676	0.244
class	Iris-setosa Iris-versicolor	Iris-setosa	

Time taken to build model (full training data) : 0.03 seconds

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

Clustered Instances

0	100 (67%)
1	50 (33%)

Status OK

Log x 0