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COURSE CODE: CSA1654

COURSE: DATA WAREHOUSE AND DATA MINING FOR MEDICAL APPLICATIONS

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

Attribute: petallength
Normal Distribution. Mean = 4.906 StdDev = 0.8214

Attribute: petalwidth
Normal Distribution. Mean = 1.676 StdDev = 0.4226

Attribute: class
Discrete Estimator. Counts = 1 51 51 (Total = 103)

Cluster: 1 Prior probability: 0.3355

Attribute: sepalength
Normal Distribution. Mean = 5.006 StdDev = 0.3489

Attribute: sepalwidth
Normal Distribution. Mean = 3.418 StdDev = 0.3772

Attribute: petallength
Normal Distribution. Mean = 1.464 StdDev = 0.1718

Attribute: petalwidth
Normal Distribution. Mean = 0.244 StdDev = 0.1061

Attribute: class
Discrete Estimator. Counts = 51 1 1 (Total = 53)

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

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

Clustered Instances

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

Log likelihood: -3.06315

Status
OK

Log x 0