

Weka Explorer

PreprocessClassifyClusterAssociateSelect attributesVisualize

Clusterer

ChooseSimpleKMeans-init 0-max-candidates 100-periodic-pruning 10000-min-density 2.0-t1-1.25-t2-1.0-N 3-A "weka.core.EuclideanDistance"-R first-last-I 500-num-slots 1-S 10

Cluster mode

Use training set

Supplied test set

Percentage split

Classes to clusters evaluation

(Nom) play

Store clusters for visualization

Set..

%66

Ignore attributes

Start

Stop

Result list (right-click for options)

20:31:46 - SimpleKMeans

Clusterer output

Attribute	Full Data	Cluster#	0	1	2
	(14.0)	(9.0)	(2.0)	(3.0)	
outlook	sunny	sunny	overcast	sunny	
temperature	mild	mild	cool	mild	
humidity	high	normal	normal	high	
windy	FALSE	FALSE	TRUE	TRUE	

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

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

Clustered Instances

0	9 (64%)
1	2 (14%)
2	3 (21%)

Class attribute: play

Classes to Clusters:

```
0 1 2 <-- assigned to cluster
7 1 1 | yes
2 1 2 | no
```

Cluster 0 <-- yes

Cluster 1 <-- No class

Cluster 2 <-- no

Incorrectly clustered instances : 5.0 35.7143 %

OneDrive

Screenshot saved

The screenshot was added to your OneDrive.

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Clusterer output

==== Run information ====

Scheme: weka.clusterers.SimpleKMeans -init 0 -max-candidates 100 -periodic-pruning 10000 -min-density 2.0 -t1 -1.25 -t2 -1.0 -N 3 -A "weka.core.EuclideanDistance" -R first-last" -I 500 -num-slots 1 -S 10

Relation: weather.symbolic

Instances: 14

Attributes: 5

outlook

temperature

humidity

windy

Ignored:

play

Test mode: Classes to clusters evaluation on training data

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

kMeans

=====

Number of iterations: 2

Within cluster sum of squared errors: 19.0

Initial starting points (random):

Cluster 0: rainy,mild,normal,FALSE

Cluster 1: overcast,cool,normal,TRUE

Cluster 2: rainy,mild,high,TRUE

Missing values globally replaced with mean/mode

Final cluster centroids:

Attribute	Full Data	Cluster#	0	1	2
	(14.0)		(9.0)	(2.0)	(3.0)
outlook	sunny		sunny	overcast	sunny

Status