

Preprocess   Classify   **Cluster**   Associate   Select attributes   Visualize

Clusterer

Choose **EM** -I 100 -N -1 -X 10 -max -1 -ll-cv 1.0E-6 -ll-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  
(Nom) class   ▾

☒ Store clusters for visualization

Ignore attributes

Start   Stop

Result list (right-click for options)

09:13:34 - EM

Cluster output

=== Run information ===

Scheme:   weka.clusterers.EM -I 100 -N -1 -X 10 -max -1 -ll-cv 1.0E-6 -ll-iter 1.0E-6 -M 1.0E-6 -K 10 -num-slots 1 -S 100

Relation:   iris

Instances:   150

Attributes:   5

           sepallength

           sepalwidth

           petallength

           petalwidth

           class

Test mode:   evaluate on training data

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

EM

==

Number of clusters selected by cross validation: 4

Number of iterations performed: 16

	Cluster			
Attribute	0	1	2	3
	(0.32)	(0.33)	(0.2)	(0.14)
=====				
sepalwidth				
mean	5.897	5.006	6.9426	6.1304
std. dev.	0.5279	0.3469	0.498	0.2943

☒ 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)

09:13:34 - EM

sepalwidth				
mean	2.7519	3.418	3.1103	2.8088
std. dev.	0.3103	0.3772	0.2952	0.2361
petallength				
mean	4.2267	1.464	5.8559	5.0993
std. dev.	0.445	0.1718	0.4626	0.2462
petalwidth				
mean	1.3134	0.244	2.1495	1.8254
std. dev.	0.1864	0.1061	0.232	0.2152

class

Iris-setosa	1	51	1	1
Iris-versicolour	48.1125	1	1.0182	3.8693
Iris-virginica	2.0983	1	31.0375	19.8641
[total]	51.2108	53	33.0557	24.7335

Time taken to build model (full training data) : 0.53 seconds

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

Clustered Instances

0	48 ( 32%)
1	50 ( 33%)
2	29 ( 19%)
3	23 ( 15%)

Log likelihood: -2.03504

Status  
OK

Log   x 0