



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

☐ Percentage split %

☐ Classes to clusters evaluation

(Nom) class

☒ Store clusters for visualization

Ignore attributes

Start

result list (right-click for options)

3:29:38 - EM

3:36:24 - 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

sepalwidth

sepalwidth

petalwidth

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

Attribute	Cluster 0 (0.32)	Cluster 1 (0.33)	Cluster 2 (0.2)	Cluster 3 (0.14)
sepalwidth				
mean	5.897	5.006	6.9426	6.1304
std. dev.	0.5279	0.3489	0.498	0.2943
sepalwidth				
mean	2.7519	3.418	3.1103	2.8088
std. dev.	0.3103	0.3772	0.2952	0.2361

```
=====
sepal.length
  mean      5.897    5.006    6.9426    6.1304
  std. dev. 0.5279    0.3489    0.498    0.2943

sepal.width
  mean      2.7519    3.418    3.1103    2.8088
  std. dev. 0.3103    0.3772    0.2952    0.2361

petal.length
  mean      4.2267    1.464    5.8559    5.0993
  std. dev. 0.445    0.1718    0.4626    0.2462

petal.width
  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-versicolor 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) : 0.35 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
```

