

00 -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 output

Set... % 66

evaluation
sualization

Ignore attributes

Stop

options)

ns

```
== 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)
=====
```

sepallength	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

petallength	mean	1.0067	1.451	5.0550	5.0000
	std. dev.	0.5279	0.3489	0.498	0.2943



Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Clusterer

Choose EM -I 100 -N 1 -X 10 -max -1 -II-cv 1.0E-6 -II-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)

13:14:01 - SimpleKMeans

13:37:19 - EM

Cluster output

	sepallength	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	
	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		1	51	1	1
Iris-setosa						
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) : 0.1 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

 30°C
Mostly cloudy
