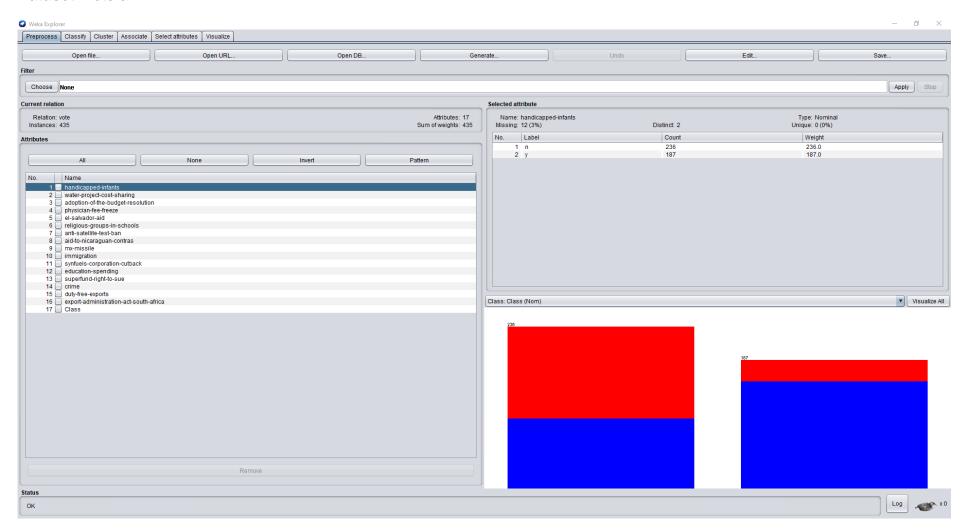# Weka

Dataset: vote.arff

Clasificador: ZeroR

```
=== Run information ===

Scheme:        weka.classifiers.rules.ZeroR
Relation:      vote
Instances:     435
Attributes:    17
               handicapped-infants
               water-project-cost-sharing
               adoption-of-the-budget-resolution
               physician-fee-freeze
               el-salvador-aid
               religious-groups-in-schools
               anti-satellite-test-ban
               aid-to-nicaraguan-contras
               mx-missile
               immigration
               synfuels-corporation-cutback
               education-spending
               superfund-right-to-sue
               crime
               duty-free-exports
               export-administration-act-south-africa
               Class
Test mode:     10-fold cross-validation

=== Classifier model (full training set) ===

ZeroR predicts class value: democrat

Time taken to build model: 0 seconds

=== Stratified cross-validation ===
=== Summary ===

Correctly Classified Instances         267               61.3793 %
Incorrectly Classified Instances       168               38.6207 %
Kappa statistic                          0
Mean absolute error                      0.4742
Root mean squared error                  0.4869
Relative absolute error                100      %
Root relative squared error            100      %
Total Number of Instances              435

=== Detailed Accuracy By Class ===

              TP Rate  FP Rate  Precision  Recall  F-Measure  MCC    ROC Area  PRC Area  Class
              1.000    1.000    0.614      1.000   0.761      ?      0.491     0.609     democrat
              0.000    0.000    ?          0.000   ?          ?      0.491     0.382     republican
Weighted Avg. 0.614    0.614    ?          0.614   ?          ?      0.491     0.521

=== Confusion Matrix ===

   a   b   <-- classified as
 267   0 |   a = democrat
 168   0 |   b = republican
```

Clasificador: PART

=== Classifier model (full training set) ===

PART decision list
----

physician-fee-freeze = n: democrat (253.41/3.75)

synfuels-corporation-cutback = n AND
education-spending = y: republican (125.78/1.29)

immigration = y AND
adoption-of-the-budget-resolution = n: republican (14.32/0.25)

crime = y AND
anti-satellite-test-ban = y: republican (13.08/1.63)

crime = y AND
adoption-of-the-budget-resolution = y AND
superfund-right-to-sue = y: democrat (7.05/0.07)

crime = y: republican (19.07/4.94)

: democrat (2.29/0.03)

Number of Rules :   7

Time taken to build model: 0.03 seconds

=== Stratified cross-validation ===
=== Summary ===

Correctly Classified Instances	412	94.7126 %
Incorrectly Classified Instances	23	5.2874 %
Kappa statistic	0.8879	
Mean absolute error	0.071	
Root mean squared error	0.2114	
Relative absolute error	14.9765 %	
Root relative squared error	43.4245 %	
Total Number of Instances	435	

=== Run information ===

Scheme:	weka.classifiers.rules.PART -C 0.25 -M 2
Relation:	vote
Instances:	435
Attributes:	17
	handicapped-infants
	water-project-cost-sharing
	adoption-of-the-budget-resolution
	physician-fee-freeze
	el-salvador-aid
	religious-groups-in-schools
	anti-satellite-test-ban
	aid-to-nicaraguan-contras
	mx-missile
	immigration
	synfuels-corporation-cutback
	education-spending
	superfund-right-to-sue
	crime
	duty-free-exports
	export-administration-act-south-africa
	Class
Test mode:	10-fold cross-validation

=== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
	0.966	0.083	0.949	0.966	0.957	0.888	0.949	0.924	democrat
	0.917	0.034	0.945	0.917	0.931	0.888	0.949	0.937	republican
Weighted Avg.	0.947	0.064	0.947	0.947	0.947	0.888	0.949	0.929	

=== Confusion Matrix ===

```
   a   b   <-- classified as
 258   9 |   a = democrat
  14 154 |   b = republican
```

Clasificador: DesitionTable

```
=== Run information ===

Scheme:        weka.classifiers.rules.DecisionTable -X 1 -S "weka.attributeSelection.BestFirst -D 1 -N 5"
Relation:      vote
Instances:     435
Attributes:    17
               handicapped-infants
               water-project-cost-sharing
               adoption-of-the-budget-resolution
               physician-fee-freeze
               el-salvador-aid
               religious-groups-in-schools
               anti-satellite-test-ban
               aid-to-nicaraguan-contras
               mx-missile
               immigration
               synfuels-corporation-cutback
               education-spending
               superfund-right-to-sue
               crime
               duty-free-exports
               export-administration-act-south-africa
               Class
Test mode:     10-fold cross-validation

=== Classifier model (full training set) ===

Decision Table:

Number of training instances: 435
Number of Rules : 40
Non matches covered by Majority class.
        Best first.
        Start set: no attributes
        Search direction: forward
        Stale search after 5 node expansions
        Total number of subsets evaluated: 125
        Merit of best subset found:   96.322
Evaluation (for feature selection): CV (leave one out)
Feature set: 3,4,12,16,17

Time taken to build model: 0.17 seconds

=== Stratified cross-validation ===
=== Summary ===

Correctly Classified Instances         413               94.9425 %
Incorrectly Classified Instances        22                5.0575 %
Kappa statistic                          0.8929
Mean absolute error                      0.0995
Root mean squared error                  0.208
Relative absolute error                 20.9752 %
Root relative squared error             42.7262 %
Total Number of Instances              435

=== Detailed Accuracy By Class ===

                 TP Rate  FP Rate  Precision  Recall  F-Measure  MCC     ROC Area  PRC Area  Class
                 0.966    0.077    0.952      0.966   0.959      0.893   0.981     0.990     democrat
                 0.923    0.034    0.945      0.923   0.934      0.893   0.981     0.958     republican
Weighted Avg.    0.949    0.061    0.949      0.949   0.949      0.893   0.981     0.977

=== Confusion Matrix ===

   a   b   <-- classified as
 258   9 |   a = democrat
  13 155 |   b = republican
```