

OF EXPERIMENTS AutoReweighed Covering Aichholz - Vollenweider

Weka Explorer

Preprocess Classify Cluster Associate Select attributes Visualize

Classifier Choose NaiveBayes

B Test options

Use training set

Supplied test set Set...

Cross-validation Folds 10

Percentage split % 66

More options...

(Nom) class

Start Stop

Result list (right-click for options)

14:20:25 - functions.SMO

14:27:38 - functions.MultilayerPerceptron

14:31:56 - bayes.NaiveBayes

Classifier output

```
== Run information ==
Scheme: weka.classifiers.bayes.NaiveBayes
Relation: labor-neg-data
Instances: 57
Attributes: 17
duration
wage-increase-first-year
wage-increase-second-year
wage-increase-third-year
cost-of-living-adjustment
working-hours
pension
standby-pay
shift-differential
education-allowance
statutory-holidays
vacation
longterm-disability-assistance
contribution-to-dental-plan
bereavement-assistance
contribution-to-health-plan
class
Test mode: 10-fold cross-validation
```

```
== Classifier model (full training set) ==
Naive Bayes Classifier
```

Attribute	Class	bad	good
duration	(0.36)	(0.64)	

Status OK Log x 0

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Classifier output

duration

	2	2.25
mean	0.7071	0.6821
std. dev.	20	36
weight sum	1	1
precision		

wage-increase-first-year

	2.6563	4.3837
mean	0.8643	1.1773
std. dev.	20	36
weight sum	0.3125	0.3125
precision		

wage-increase-second-year

	2.9524	4.447
mean	0.8193	0.9805
std. dev.	15	31
weight sum	0.3571	0.3571
precision		

wage-increase-third-year

	2.0344	4.5795
mean	0.1678	0.7893
std. dev.	4	11
weight sum	0.3875	0.3875
precision		

cost-of-living-adjustment

	10.0	14.0
none	2.0	8.0
tcf	6.0	3.0
tc	[total]	18.0 25.0

working-hours

	39.4887	37.5491
mean	1.8903	2.9266
std. dev.	19	32
weight sum		

Status OK

Log

Focus

English (United States) Accessibility: Unavailable Recovered

Classifier

Choose NaiveBayes

Test options

Use training set

Supplied test set Set...

Cross-validation Folds 10

Percentage split % 66

[More options...](#)

(Nom) class

Start Stop

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Classifier output

half	3.0	8.0
full	7.0	15.0
[total]	19.0	24.0

Time taken to build model: 0 seconds

==== Stratified cross-validation ===

==== Summary ===

Correctly Classified Instances	51	89.4737 %
Incorrectly Classified Instances	6	10.5263 %
Kappa statistic	0.7741	
Mean absolute error	0.1042	
Root mean squared error	0.2637	
Relative absolute error	22.7763 %	
Root relative squared error	55.2266 %	
Total Number of Instances	57	

==== Detailed Accuracy By Class ===

	TP Rate	FP Rate	Precision	Recall	F-Measure	MCC	ROC Area	PRC Area	Class
0.900	0.108	0.818	0.900	0.857	0.776	0.965	0.926	0.983	bad
0.892	0.100	0.943	0.892	0.917	0.776	0.965	0.926	0.983	good
Weighted Avg.	0.895	0.103	0.899	0.895	0.896	0.776	0.965	0.963	

==== Confusion Matrix ===

```
a b    <-- classified as
18 2 | a = bad
  4 33 | b = good
```

Status

OK