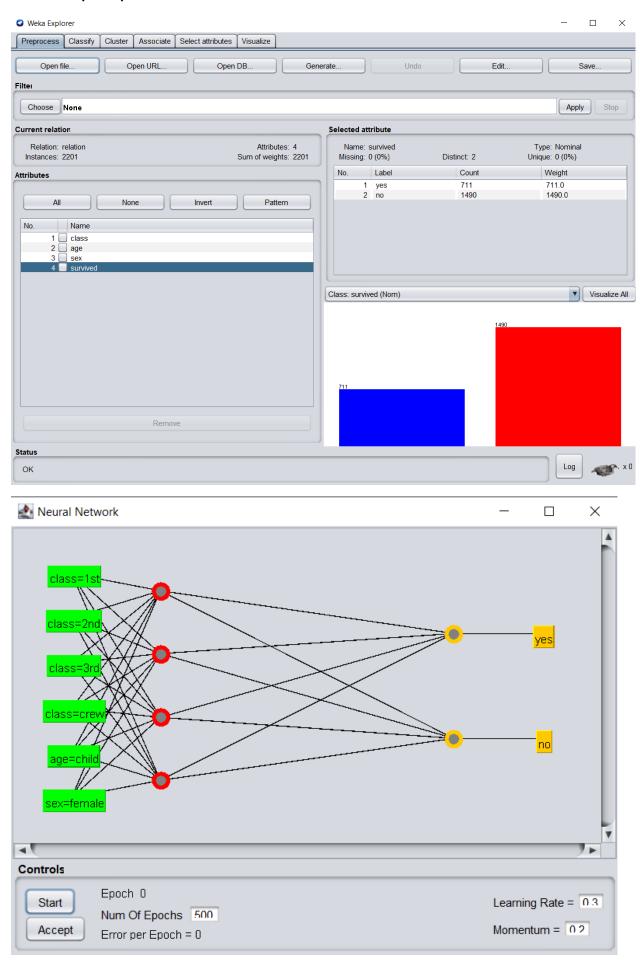
Titanic 3 параметра



```
Scheme:
           weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H a -G -R
Relation: relation
Instances: 2201
Attributes: 4
      class
       age
       sex
       survived
Test mode: evaluate on training data
=== Classifier model (full training set) ===
Sigmoid Node 0
 Inputs Weights
 Threshold 4.401401927699589
 Node 2 -0.40255339192605194
 Node 3 -1.1718300174331955
 Node 4 -4.177344437330253
 Node 5 -2.3850067305821847
Sigmoid Node 1
 Inputs Weights
 Threshold -4.401401927699596
 Node 2 0.40255339192605183
 Node 3 1.1718300174331948
 Node 4 4.17734443733026
 Node 5 2.385006730582188
Sigmoid Node 2
 Inputs Weights
 Threshold -2.278578028884966
 Attrib class=1st 2.362824711331264
 Attrib class=2nd 0.2276753384783987
 Attrib class=3rd 2.1428830101766443
 Attrib class=crew -0.17421067314483263
 Attrib age=child 0.6557403705924357
 Attrib sex=female -3.802652752185458
Sigmoid Node 3
 Inputs Weights
 Threshold -3.52593003445517
 Attrib class=1st -0.12878364755814695
 Attrib class=2nd 0.17936085325406048
 Attrib class=3rd 3.473935182869863
 Attrib class=crew 3.4862367333318214
 Attrib age=child -2.241180325672059
  Attrib sex=female -4.129486787834129
Sigmoid Node 4
 Inputs Weights
 Threshold 0.9210426335169565
 Attrib class=1st -2.746963682847665
 Attrib class=2nd -3.4187826312201754
 Attrib class=3rd 5.800422560526519
 Attrib class=crew -1.5780497108970621
 Attrib age=child -4.566832085844144
```

Attrib sex=female -4.165986725360772

=== Run information ===

```
Sigmoid Node 5
 Inputs Weights
 Threshold -3.2146407101561043
 Attrib class=1st 1.1903010687619888
 Attrib class=2nd 5.187124694078265
 Attrib class=3rd -0.28229445123233976
 Attrib class=crew 0.4947167207570416
 Attrib age=child -3.147065121446262
 Attrib sex=female -0.15777947280201648
Class yes
 Input
 Node 0
Class no
 Input
 Node 1
```

Time taken to build model: 21.68 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correctly Classified Instances Incorrectly Classified Instances 21.672 % 477 Kappa statistic 0.4598 Mean absolute error 0.3407 Root mean squared error 0.4003 Relative absolute error 77.8953 % Root relative squared error 85.6089 % Total Number of Instances 2201

1724

=== Detailed Accuracy By Class ===

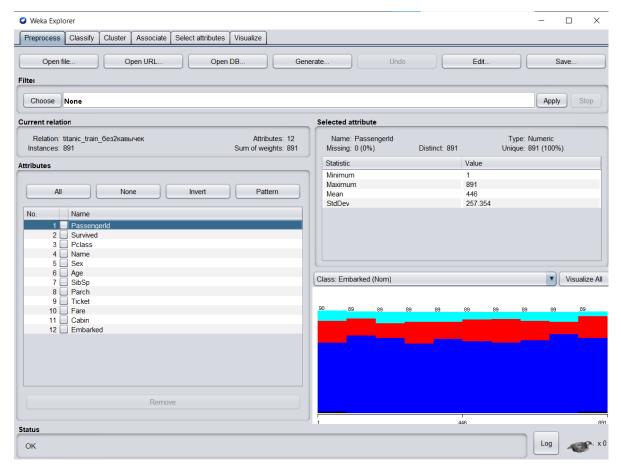
TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class 0,506 0,085 0,741 0,506 0,602 0,475 0,768 0,674 yes 0,915 0,494 0,795 0,915 0,851 0,475 0,768 0,829 no Weighted Avg. 0,783 0,362 0,778 0,783 0,771 0,475 0,768 0,779

78.328 %

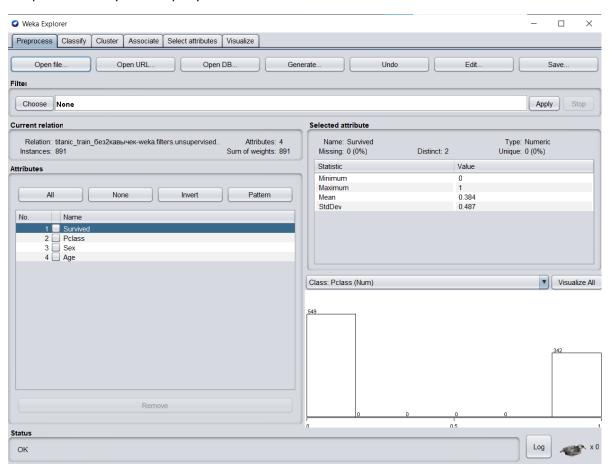
=== Confusion Matrix ===

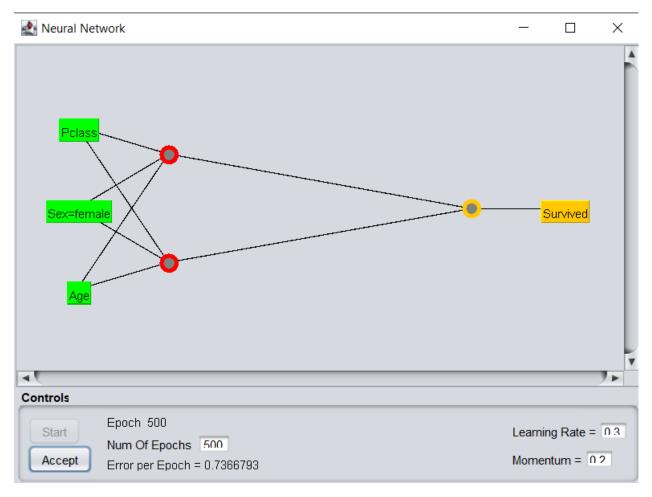
a b <-- classified as 360 351 | a = yes 126 1364 | b = no

Titanic_train_без2кавычек.csv



Убираем все ненужные атрибуты





=== Run information ===

Scheme: weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H a -G -R Relation: titanic_train_бeз2кавычек-weka.filters.unsupervised.attribute.Remove-R1-weka.filters.unsupervised.attribute.Remove-R7-weka.filters.unsupervised.attribute.Remove-R8-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupe

Instances: 891 Attributes: 4 Survived Pclass Sex Age

Test mode: evaluate on training data

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

Linear Node 0

Inputs Weights
Threshold -0.1806064691809107
Node 1 -1.4935487811433605
Node 2 1.3627887728261265
Sigmoid Node 1
Inputs Weights

Threshold -4.8933978045779565 Attrib Pclass 0.9990913610117612 Attrib Sex=female -4.3562246912579 Attrib Age 2.1500891021439577
Sigmoid Node 2
Inputs Weights
Threshold -2.035739682308306
Attrib Pclass -4.314548352166857
Attrib Sex=female 3.3603295450204
Attrib Age -1.9785121472108544
Class
Input
Node 0

Time taken to build model: 14.99 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient 0.6337

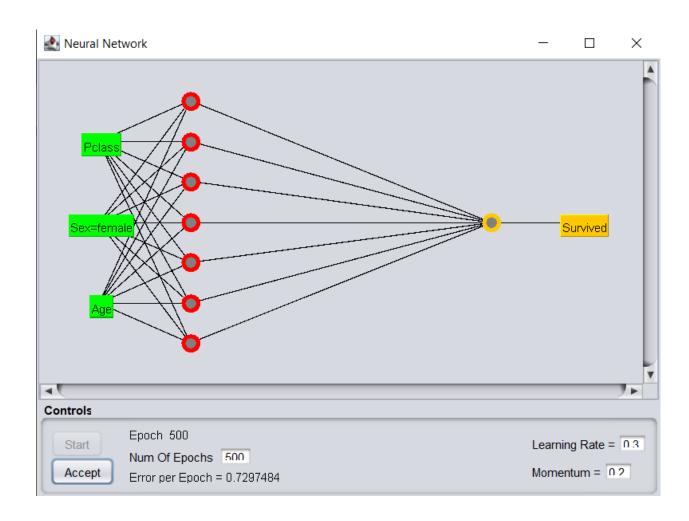
Mean absolute error 0.2776

Root mean squared error 0.3829

Relative absolute error 58.6799 %

Root relative squared error 78.7385 %

Total Number of Instances 891



```
=== Run information ===
```

Inputs Weights

```
Scheme:
           weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H 7 -G -R
Relation: titanic_train_без2кавычек-weka.filters.unsupervised.attribute.Remove-R1-
weka.filters.unsupervised.attribute.Remove-R3-weka.filters.unsupervised.attribute.Remove-R7-
weka.filters.unsupervised.attribute.Remove-R8-weka.filters.unsupervised.attribute.Remove-R5-6-
weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5
Instances: 891
Attributes: 4
       Survived
       Pclass
       Sex
       Age
Test mode: evaluate on training data
=== Classifier model (full training set) ===
Linear Node 0
  Inputs Weights
  Threshold -0.48845230977734316
  Node 1 1.0950465206868276
  Node 2 2.127399164713692
  Node 3 -2.2942192331915954
  Node 4 -2.2929417927378926
  Node 5 2.1276006471590674
  Node 6 2.1273091475732047
  Node 7 -2.294425738977959
Sigmoid Node 1
  Inputs Weights
  Threshold -4.307884024646734
  Attrib Pclass -19.902913690248493
  Attrib Sex=female 8.561760927976469
  Attrib Age -17.033511470638498
Sigmoid Node 2
  Inputs Weights
  Threshold -6.002689619191708
  Attrib Pclass -0.24564290052836657
  Attrib Sex=female 3.5904531547276344
  Attrib Age 0.37089562571391077
Sigmoid Node 3
  Inputs Weights
  Threshold -5.987669915806933
  Attrib Pclass -0.015138585907197378
  Attrib Sex=female -3.2966245315821276
  Attrib Age 0.9194313748158106
Sigmoid Node 4
  Inputs Weights
  Threshold -5.980223861703634
  Attrib Pclass -0.015172811312025391
  Attrib Sex=female -3.2898775512218092
  Attrib Age 0.9195242684095358
Sigmoid Node 5
```

Threshold -6.001232844582249 Attrib Pclass -0.24550220540104226

Attrib Sex=female 3.5886432076979746

Attrib Age 0.3702756388007201 Sigmoid Node 6

Inputs Weights

Threshold -6.00240544264518

Attrib Pclass -0.24567836648724634

Attrib Sex=female 3.5902789832463133

Attrib Age 0.3710502248630275

Sigmoid Node 7

Inputs Weights

Threshold -5.988886324180701

Attrib Pclass -0.01513303162560967

Attrib Sex=female -3.2977279860090762

Attrib Age 0.9194163832262462

Class

Input

Node 0

Time taken to build model: 26.67 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0.01 seconds

=== Summary ===

Correlation coefficient 0.6472

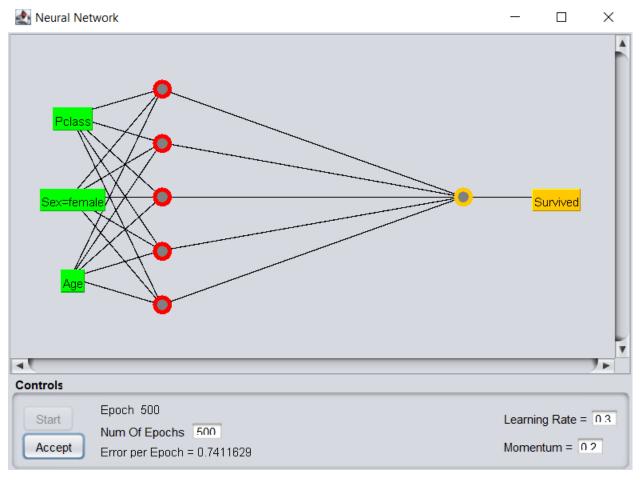
Mean absolute error 0.2634

Root mean squared error 0.3786

Relative absolute error 55.6776 %

Root relative squared error 77.8574 %

Total Number of Instances 891



=== Run information ===

Scheme: weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H 5 -G -R

Relation: titanic_train_бeз2кавычек-weka.filters.unsupervised.attribute.Remove-R1-weka.filters.unsupervised.attribute.Remove-R7-weka.filters.unsupervised.attribute.Remove-R7-weka.filters.unsupervised.attribute.Remove-R5-6-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.att

Instances: 891 Attributes: 4 Survived Pclass Sex Age

Test mode: evaluate on training data

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

Linear Node 0

Inputs Weights
Threshold -0.48436148708306337
Node 1 -1.821943145304757
Node 2 1.6134790778935404
Node 3 1.1028873494312832
Node 4 -1.821953249582888
Node 5 1.337584650919798
Sigmoid Node 1
Inputs Weights

Threshold -5.645757887354781

Attrib Pclass 0.007609362921439554 Attrib Sex=female -3.627795321985087 Attrib Age 1.0529482401178187 Sigmoid Node 2 Inputs Weights Threshold -5.787854761021211 Attrib Pclass -0.1447956139432651 Attrib Sex=female 3.7474219394241115 Attrib Age -0.06903892864351302 Sigmoid Node 3 Inputs Weights Threshold -4.288695366897878 Attrib Pclass -19.88034186368865 Attrib Sex=female 8.643345313234944 Attrib Age -17.05515806790974 Sigmoid Node 4 Inputs Weights Threshold -5.646125503911101 Attrib Pclass 0.0076101730748245125 Attrib Sex=female -3.6281531956511417 Attrib Age 1.052945166586224 Sigmoid Node 5 Inputs Weights Threshold -5.358861812788962 Attrib Pclass -0.4110534396123926 Attrib Sex=female 4.134634430777051 Attrib Age 0.8543294821663356 Class Input Node 0

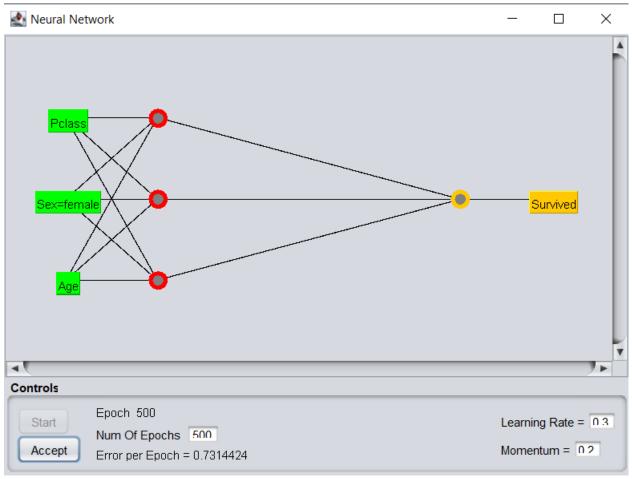
Time taken to build model: 45.16 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient 0.6453
Mean absolute error 0.2634
Root mean squared error 0.3786
Relative absolute error 55.6915 %
Root relative squared error 77.8599 %
Total Number of Instances 891



=== Run information ===

Scheme: weka.classifiers.functions.MultilayerPerceptron -L 0.3 -M 0.2 -N 500 -V 0 -S 0 -E 20 -H 3 -G -R Relation: titanic_train_бeз2кавычек-weka.filters.unsupervised.attribute.Remove-R1-weka.filters.unsupervised.attribute.Remove-R7-weka.filters.unsupervised.attribute.Remove-R8-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupervised.attribute.Remove-R5-weka.filters.unsupe

Instances: 891 Attributes: 4 Survived Pclass Sex Age

Test mode: evaluate on training data

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

Linear Node 0

Inputs Weights

Threshold -0.20490168624391558

Node 1 -1.6191259077488376

Node 2 1.3899609355337414

Node 3 -1.619129143624606

Sigmoid Node 1

Inputs Weights

Threshold -5.69883152488049 Attrib Pclass 0.6152790302769637

Attrib Sex=female -3.9670670777602832

```
Attrib Age 1.2305331071899777
```

Sigmoid Node 2

Inputs Weights

Threshold -2.087518468848066 Attrib Pclass -4.44125954075273

Attrib Sex=female 3.3629131912498194

Attrib Age -2.2154734616827234

Sigmoid Node 3

Inputs Weights

Threshold -5.699268376766073

Attrib Pclass 0.6152788826682052

Attrib Sex=female -3.967498901648264

Attrib Age 1.2305312662133518

Class

Input

Node 0

Time taken to build model: 40.99 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correlation coefficient 0.6351 Mean absolute error 0.2746 Root mean squared error 0.3803 Relative absolute error 58.0447 % 78.1904 % Root relative squared error

Total Number of Instances 891