=== Run information ===

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

Relation: mammographic\_masses.data

Instances: 961

Attributes: 5

Distribution

predictive

any outliers

nominal

ratio

Test mode: 10-fold cross-validation

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

Sigmoid Node 0

Inputs Weights

Threshold -4.795381132339708

Node 2 4.146360119608141

Node 3 1.7004149837510494

Node 4 2.7090588757051264

Sigmoid Node 1

Inputs Weights

Threshold 4.795381132339705

Node 2 -4.146360119608139

Node 3 -1.700414983751049

Node 4 -2.7090588757051264

Sigmoid Node 2

Inputs Weights

Threshold 2.5797595935136473

Attrib Distribution -4.35831510334448

Attrib predictive 1.425246624455679

Attrib any outliers -0.7165670617999178

Attrib nominal -0.944169402434215

Sigmoid Node 3

Inputs Weights

Threshold -3.442672313095216

Attrib Distribution 3.3386715873605333

Attrib predictive -7.940589992793835

Attrib any outliers -5.294067870106266

Attrib nominal -7.592573084936826

Sigmoid Node 4

Inputs Weights

Threshold 3.6859723219193077

Attrib Distribution -4.375682566041987

Attrib predictive -6.705606578047729

Attrib any outliers -3.12418318490455

Attrib nominal 2.3406370527681797

Class FALSE

Input

Node 0

Class TRUE

Input

Node 1

Time taken to build model: 0.34 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 766 79.7086 %

Incorrectly Classified Instances 195 20.2914 %

Kappa statistic 0.5926

Mean absolute error 0.2833

Root mean squared error 0.3901

Relative absolute error 56.9599 %

Root relative squared error 78.2398 %

Total Number of Instances 961

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC ROC Area PRC Area Class

0.800 0.207 0.818 0.800 0.809 0.593 0.850 0.848 FALSE

0.793 0.200 0.774 0.793 0.784 0.593 0.850 0.814 TRUE

Weighted Avg. 0.797 0.203 0.798 0.797 0.797 0.593 0.850 0.832

=== Confusion Matrix ===

a b <-- classified as

413 103 | a = FALSE

92 353 | b = TRUE