**Naïve Bayes**

=== Run information ===

Scheme: weka.classifiers.bayes.BayesNet -D -Q weka.classifiers.bayes.net.search.local.K2 -- -P 1 -S BAYES -E weka.classifiers.bayes.net.estimate.SimpleEstimator -- -A 0.5

Relation: dataclean-weka.filters.unsupervised.attribute.Reorder-R1,2,3,4,5,6,7,8,9,10,11,12,13,14,16,17,18,19,20,21,22,23,15-weka.filters.unsupervised.attribute.NumericToNominal-Rfirst-last-weka.filters.supervised.instance.ClassBalancer-num-intervals10

Instances: 32625

Attributes: 23

ecage26

ecsex99

marst26

pvreg25

dwtenr25

mortg25

multj28

alhrp28

yrxfte11

clwkr1

prmjb1

fllprt1

nocg2e6

imphwe1

uncoll1

n07c3g10

pubpv10

cqpc42

rppc42

udpd42

wgsal42

hleveg18

penpln1

Test mode: 10-fold cross-validation

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

Bayes Network Classifier

not using ADTree

#attributes=23 #classindex=22

Network structure (nodes followed by parents)

ecage26(54): penpln1

ecsex99(2): penpln1

marst26(6): penpln1

pvreg25(10): penpln1

dwtenr25(2): penpln1

mortg25(2): penpln1

multj28(2): penpln1

alhrp28(2848): penpln1

yrxfte11(52): penpln1

clwkr1(6): penpln1

prmjb1(4): penpln1

fllprt1(3): penpln1

nocg2e6(26): penpln1

imphwe1(3166): penpln1

uncoll1(3): penpln1

n07c3g10(17): penpln1

pubpv10(3): penpln1

cqpc42(90): penpln1

rppc42(133): penpln1

udpd42(89): penpln1

wgsal42(246): penpln1

hleveg18(12): penpln1

penpln1(2):

LogScore Bayes: -1542949.7170478527

LogScore BDeu: -1687962.085170092

LogScore MDL: -1652428.6734292721

LogScore ENTROPY: -1582230.275199402

LogScore AIC: -1595739.275199402

Time taken to build model: 0.08 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 27023.629 82.831 %

Incorrectly Classified Instances 5601.371 17.169 %

Kappa statistic 0.6566

Mean absolute error 0.1759

Root mean squared error 0.3777

Relative absolute error 35.1721 %

Root relative squared error 75.5382 %

Total Number of Instances 32625

=== Detailed Accuracy By Class ===

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

0.811 0.154 0.840 0.811 0.825 0.657 0.920 0.921 0

0.846 0.189 0.817 0.846 0.831 0.657 0.920 0.922 1

Weighted Avg. 0.828 0.172 0.829 0.828 0.828 0.657 0.920 0.921

=== Confusion Matrix ===

a b <-- classified as

13229 3084 | a = 0

2518 13795 | b = 1