=== 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: fsi1-2019-weka.filters.unsupervised.attribute.Discretize-B4-M-1.0-Rfirst-last-precision6

Instances: 2099

Attributes: 17

ï»¿Country

Year

Rank

Total

C1: Security Apparatus

C2: Factionalized Elites

C3: Group Grievance

E1: Economy

E2: Economic Inequality

E3: Human Flight and Brain Drain

P1: State Legitimacy

P2: Public Services

P3: Human Rights

S1: Demographic Pressures

S2: Refugees and IDPs

X1: External Intervention

Change from Previous Year

Test mode: 10-fold cross-validation

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

Bayes Network Classifier

not using ADTree

#attributes=17 #classindex=3

Network structure (nodes followed by parents)

ï»¿Country(178): Total

Year(1): Total

Rank(165): Total

Total(4):

C1: Security Apparatus(4): Total

C2: Factionalized Elites(4): Total

C3: Group Grievance(4): Total

E1: Economy(4): Total

E2: Economic Inequality(4): Total

E3: Human Flight and Brain Drain(4): Total

P1: State Legitimacy(4): Total

P2: Public Services(4): Total

P3: Human Rights(4): Total

S1: Demographic Pressures(4): Total

S2: Refugees and IDPs(4): Total

X1: External Intervention(4): Total

Change from Previous Year(1): Total

LogScore Bayes: -4256.17115403277

LogScore BDeu: -15135.667165022576

LogScore MDL: -11442.29480347615

LogScore ENTROPY: -7527.457331230475

LogScore AIC: -9038.457331230473

Time taken to build model: 0.01 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 164 92.1348 %

Incorrectly Classified Instances 14 7.8652 %

Kappa statistic 0.8874

Mean absolute error 0.048

Root mean squared error 0.1622

Relative absolute error 13.6958 %

Root relative squared error 38.77 %

Total Number of Instances 178

Ignored Class Unknown Instances 1921

=== Detailed Accuracy By Class ===

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

0.939 0.034 0.861 0.939 0.899 0.875 1.000 0.985 '(-inf-41.05]'

0.800 0.021 0.903 0.800 0.848 0.816 0.999 0.964 '(41.05-65.2]'

0.962 0.040 0.950 0.962 0.956 0.921 0.292 0.212 '(65.2-89.35]'

0.935 0.014 0.935 0.935 0.935 0.922 1.000 0.982 '(89.35-inf)'

Weighted Avg. 0.921 0.031 0.922 0.921 0.921 0.892 0.685 0.637

=== Confusion Matrix ===

a b c d <-- classified as

31 2 0 0 | a = '(-inf-41.05]'

5 28 2 0 | b = '(41.05-65.2]'

0 1 76 2 | c = '(65.2-89.35]'

0 0 2 29 | d = '(89.35-inf)'