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

Instances: 178

Attributes: 23

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

GDPRank

Inflation

BirthRate

DeathRate

Life Expectancy

Economic Growth

Test mode: 10-fold cross-validation

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

Bayes Network Classifier

not using ADTree

#attributes=23 #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(4): Total

GDPRank(4): Total

Inflation(4): Total

BirthRate(4): Total

DeathRate(4): Total

Life Expectancy(4): Total

Economic Growth(2): Total

LogScore Bayes: -5326.803550718186

LogScore BDeu: -16389.86895951954

LogScore MDL: -12694.124850454746

LogScore ENTROPY: -8582.379603297964

LogScore AIC: -10169.379603297964

Time taken to build model: 0.02 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 162 91.0112 %

Incorrectly Classified Instances 16 8.9888 %

Kappa statistic 0.8724

Mean absolute error 0.0557

Root mean squared error 0.1958

Relative absolute error 15.9033 %

Root relative squared error 46.8088 %

Total Number of Instances 178

=== Detailed Accuracy By Class ===

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

0.909 0.028 0.882 0.909 0.896 0.871 0.994 0.972 '(-inf-41.05]'

0.857 0.028 0.882 0.857 0.870 0.838 0.977 0.939 '(41.05-65.2]'

0.924 0.030 0.961 0.924 0.942 0.898 0.985 0.974 '(65.2-89.35]'

0.935 0.034 0.853 0.935 0.892 0.870 0.992 0.974 '(89.35-inf)'

Weighted Avg. 0.910 0.030 0.912 0.910 0.910 0.876 0.986 0.966

=== Confusion Matrix ===

a b c d <-- classified as

30 3 0 0 | a = '(-inf-41.05]'

4 30 1 0 | b = '(41.05-65.2]'

0 1 73 5 | c = '(65.2-89.35]'

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