=== Run information ===

Scheme: weka.classifiers.rules.JRip -F 3 -N 2.0 -O 2 -S 1

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) ===

JRIP rules:

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(P2: Public Services = '(7.675-inf)') and (C3: Group Grievance = '(7.75-inf)') => Total='(89.35-inf)' (21.0/0.0)

(P2: Public Services = '(7.675-inf)') and (X1: External Intervention = '(7.675-inf)') and (P3: Human Rights = '(5.35-7.675]') => Total='(89.35-inf)' (5.0/0.0)

(E1: Economy = '(7.65-inf)') and (C3: Group Grievance = '(5.5-7.75]') and (P1: State Legitimacy = '(7.65-inf)') => Total='(89.35-inf)' (5.0/1.0)

(P2: Public Services = '(-inf-3.025]') and (X1: External Intervention = '(-inf-3.025]') and (Economic Growth >= 0.7) => Total='(-inf-41.05]' (24.0/0.0)

(C2: Factionalized Elites = '(-inf-3.25]') => Total='(-inf-41.05]' (9.0/2.0)

(S2: Refugees and IDPs = '(-inf-3.325]') and (C1: Security Apparatus = '(3.025-5.35]') => Total='(41.05-65.2]' (11.0/0.0)

(C2: Factionalized Elites = '(3.25-5.5]') and (BirthRate = '(-inf-14.94]') => Total='(41.05-65.2]' (8.0/1.0)

(S1: Demographic Pressures = '(-inf-3.25]') and (Economic Growth <= 4.1) => Total='(41.05-65.2]' (6.0/0.0)

(S2: Refugees and IDPs = '(-inf-3.325]') and (P1: State Legitimacy = '(2.95-5.3]') => Total='(41.05-65.2]' (5.0/0.0)

=> Total='(65.2-89.35]' (84.0/6.0)

Number of Rules : 10

Time taken to build model: 0.05 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 136 76.4045 %

Incorrectly Classified Instances 42 23.5955 %

Kappa statistic 0.6578

Mean absolute error 0.1418

Root mean squared error 0.323

Relative absolute error 40.4439 %

Root relative squared error 77.2038 %

Total Number of Instances 178

=== Detailed Accuracy By Class ===

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

0.848 0.055 0.778 0.848 0.812 0.768 0.910 0.718 '(-inf-41.05]'

0.543 0.070 0.655 0.543 0.594 0.509 0.762 0.512 '(41.05-65.2]'

0.848 0.192 0.779 0.848 0.812 0.652 0.861 0.759 '(65.2-89.35]'

0.710 0.034 0.815 0.710 0.759 0.714 0.905 0.698 '(89.35-inf)'

Weighted Avg. 0.764 0.115 0.761 0.764 0.760 0.656 0.858 0.692

=== Confusion Matrix ===

a b c d <-- classified as

28 5 0 0 | a = '(-inf-41.05]'

6 19 10 0 | b = '(41.05-65.2]'

2 5 67 5 | c = '(65.2-89.35]'

0 0 9 22 | d = '(89.35-inf)'