=== Run information ===

Scheme: weka.classifiers.trees.J48 -C 0.25 -M 2

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) ===

J48 pruned tree

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P2: Public Services = '(-inf-3.025]'

| X1: External Intervention = '(-inf-3.025]'

| | S1: Demographic Pressures = '(-inf-3.25]': '(-inf-41.05]' (24.0)

| | S1: Demographic Pressures = '(3.25-5.5]'

| | | E1: Economy = '(-inf-3.35]': '(-inf-41.05]' (2.0)

| | | E1: Economy = '(3.35-5.5]': '(41.05-65.2]' (2.0)

| | | E1: Economy = '(5.5-7.65]': '(-inf-41.05]' (0.0)

| | | E1: Economy = '(7.65-inf)': '(-inf-41.05]' (0.0)

| | S1: Demographic Pressures = '(5.5-7.75]': '(-inf-41.05]' (0.0)

| | S1: Demographic Pressures = '(7.75-inf)': '(-inf-41.05]' (0.0)

| X1: External Intervention = '(3.025-5.35]'

| | C2: Factionalized Elites = '(-inf-3.25]': '(-inf-41.05]' (4.0)

| | C2: Factionalized Elites = '(3.25-5.5]': '(41.05-65.2]' (5.0/1.0)

| | C2: Factionalized Elites = '(5.5-7.75]': '(41.05-65.2]' (4.0/1.0)

| | C2: Factionalized Elites = '(7.75-inf)': '(41.05-65.2]' (0.0)

| X1: External Intervention = '(5.35-7.675]': '(41.05-65.2]' (3.0)

| X1: External Intervention = '(7.675-inf)': '(41.05-65.2]' (1.0)

P2: Public Services = '(3.025-5.35]'

| C2: Factionalized Elites = '(-inf-3.25]': '(41.05-65.2]' (3.0/1.0)

| C2: Factionalized Elites = '(3.25-5.5]': '(41.05-65.2]' (8.0)

| C2: Factionalized Elites = '(5.5-7.75]'

| | S1: Demographic Pressures = '(-inf-3.25]': '(41.05-65.2]' (5.0/1.0)

| | S1: Demographic Pressures = '(3.25-5.5]': '(41.05-65.2]' (8.0/2.0)

| | S1: Demographic Pressures = '(5.5-7.75]': '(65.2-89.35]' (5.0)

| | S1: Demographic Pressures = '(7.75-inf)': '(41.05-65.2]' (0.0)

| C2: Factionalized Elites = '(7.75-inf)': '(65.2-89.35]' (23.0)

P2: Public Services = '(5.35-7.675]': '(65.2-89.35]' (37.0/3.0)

P2: Public Services = '(7.675-inf)'

| C1: Security Apparatus = '(-inf-3.025]': '(89.35-inf)' (0.0)

| C1: Security Apparatus = '(3.025-5.35]': '(65.2-89.35]' (2.0)

| C1: Security Apparatus = '(5.35-7.675]'

| | S2: Refugees and IDPs = '(-inf-3.325]': '(65.2-89.35]' (0.0)

| | S2: Refugees and IDPs = '(3.325-5.55]': '(65.2-89.35]' (5.0)

| | S2: Refugees and IDPs = '(5.55-7.775]'

| | | DeathRate = '(-inf-9.1825]': '(65.2-89.35]' (2.0)

| | | DeathRate = '(9.1825-15.955]': '(89.35-inf)' (6.0/1.0)

| | | DeathRate = '(15.955-22.7275]': '(65.2-89.35]' (2.0)

| | | DeathRate = '(22.7275-inf)': '(65.2-89.35]' (1.0)

| | S2: Refugees and IDPs = '(7.775-inf)': '(89.35-inf)' (2.0)

| C1: Security Apparatus = '(7.675-inf)': '(89.35-inf)' (24.0/1.0)

Number of Leaves : 31

Size of the tree : 41

Time taken to build model: 0.02 seconds

=== Stratified cross-validation ===

=== Summary ===

Correctly Classified Instances 138 77.5281 %

Incorrectly Classified Instances 40 22.4719 %

Kappa statistic 0.6808

Mean absolute error 0.1248

Root mean squared error 0.3079

Relative absolute error 35.6156 %

Root relative squared error 73.5851 %

Total Number of Instances 178

=== Detailed Accuracy By Class ===

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

0.697 0.062 0.719 0.697 0.708 0.643 0.883 0.727 '(-inf-41.05]'

0.629 0.105 0.595 0.629 0.611 0.513 0.859 0.569 '(41.05-65.2]'

0.848 0.091 0.882 0.848 0.865 0.761 0.908 0.851 '(65.2-89.35]'

0.839 0.048 0.788 0.839 0.813 0.772 0.896 0.700 '(89.35-inf)'

Weighted Avg. 0.775 0.081 0.779 0.775 0.777 0.692 0.892 0.746

=== Confusion Matrix ===

a b c d <-- classified as

23 10 0 0 | a = '(-inf-41.05]'

9 22 4 0 | b = '(41.05-65.2]'

0 5 67 7 | c = '(65.2-89.35]'

0 0 5 26 | d = '(89.35-inf)'