=== Run information ===

Scheme: weka.classifiers.bayes.NaiveBayes

Relation: final\_preprocess

Instances: 177

Attributes: 24

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

L1: Literacy rate adult

A1: Exports and imports

A2: Foreign direct investment net inflows

R1: Life expectancy at birth

R2: Life expectancy Index

U1: Unemployment total

Outlier

ExtremeValue

Test mode: evaluate on training data

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

Naive Bayes Classifier

Class

Attribute Alert Warning Stable Sustainable

(0.21) (0.48) (0.16) (0.15)

============================================================================================

Country

Afghanistan 2.0 1.0 1.0 1.0

Albania 1.0 2.0 1.0 1.0

Algeria 1.0 2.0 1.0 1.0

Angola 1.0 2.0 1.0 1.0

Antigua and Barbuda 1.0 1.0 2.0 1.0

Argentina 1.0 1.0 2.0 1.0

Armenia 1.0 2.0 1.0 1.0

Australia 1.0 1.0 1.0 2.0

Austria 1.0 1.0 1.0 2.0

Azerbaijan 1.0 2.0 1.0 1.0

Bahamas 1.0 1.0 2.0 1.0

Bahrain 1.0 1.0 2.0 1.0

Bangladesh 2.0 1.0 1.0 1.0

Barbados 1.0 1.0 2.0 1.0

Belarus 1.0 2.0 1.0 1.0

Belgium 1.0 1.0 1.0 2.0

Belize 1.0 2.0 1.0 1.0

Benin 1.0 2.0 1.0 1.0

Bhutan 1.0 2.0 1.0 1.0

Bolivia 1.0 2.0 1.0 1.0

Bosnia and Herzegovina 1.0 2.0 1.0 1.0

Botswana 1.0 2.0 1.0 1.0

Brazil 1.0 2.0 1.0 1.0

Brunei Darussalam 1.0 2.0 1.0 1.0

Bulgaria 1.0 1.0 2.0 1.0

Burkina Faso 2.0 1.0 1.0 1.0

Burundi 2.0 1.0 1.0 1.0

Cambodia 1.0 2.0 1.0 1.0

Cameroon 2.0 1.0 1.0 1.0

Canada 1.0 1.0 1.0 2.0

Cape Verde 1.0 2.0 1.0 1.0

Central African Republic 2.0 1.0 1.0 1.0

Chad 2.0 1.0 1.0 1.0

Chile 1.0 1.0 1.0 2.0

China 1.0 2.0 1.0 1.0

Colombia 1.0 2.0 1.0 1.0

Comoros 1.0 2.0 1.0 1.0

Congo Democratic Republic 2.0 1.0 1.0 1.0

Congo Republic 2.0 1.0 1.0 1.0

Costa Rica 1.0 1.0 2.0 1.0

Cote dIvoire 2.0 1.0 1.0 1.0

Croatia 1.0 1.0 2.0 1.0

Cuba 1.0 2.0 1.0 1.0

Cyprus 1.0 2.0 1.0 1.0

Czech Republic 1.0 1.0 1.0 2.0

Denmark 1.0 1.0 1.0 2.0

Djibouti 1.0 2.0 1.0 1.0

Dominican Republic 1.0 2.0 1.0 1.0

Ecuador 1.0 2.0 1.0 1.0

Egypt 1.0 2.0 1.0 1.0

El Salvador 1.0 2.0 1.0 1.0

Equatorial Guinea 1.0 2.0 1.0 1.0

Eritrea 2.0 1.0 1.0 1.0

Estonia 1.0 1.0 2.0 1.0

Ethiopia 2.0 1.0 1.0 1.0

Fiji 1.0 2.0 1.0 1.0

Finland 1.0 1.0 1.0 2.0

France 1.0 1.0 1.0 2.0

Gabon 1.0 2.0 1.0 1.0

Gambia 1.0 2.0 1.0 1.0

Georgia 2.0 1.0 1.0 1.0

Germany 1.0 1.0 1.0 2.0

Ghana 1.0 2.0 1.0 1.0

Greece 1.0 1.0 2.0 1.0

Grenada 1.0 2.0 1.0 1.0

Guatemala 1.0 2.0 1.0 1.0

Guinea 2.0 1.0 1.0 1.0

Guinea Bissau 2.0 1.0 1.0 1.0

Guyana 1.0 2.0 1.0 1.0

Haiti 2.0 1.0 1.0 1.0

Honduras 1.0 2.0 1.0 1.0

Hungary 1.0 1.0 2.0 1.0

Iceland 1.0 1.0 1.0 2.0

India 1.0 2.0 1.0 1.0

Indonesia 1.0 2.0 1.0 1.0

Iran 2.0 1.0 1.0 1.0

Iraq 2.0 1.0 1.0 1.0

Ireland 1.0 1.0 1.0 2.0

Israel and West Bank 1.0 2.0 1.0 1.0

Italy 1.0 1.0 2.0 1.0

Jamaica 1.0 2.0 1.0 1.0

Japan 1.0 1.0 1.0 2.0

Jordan 1.0 2.0 1.0 1.0

Kazakhstan 1.0 2.0 1.0 1.0

Kenya 2.0 1.0 1.0 1.0

Kuwait 1.0 1.0 2.0 1.0

Kyrgyz Republic 1.0 2.0 1.0 1.0

Laos 1.0 2.0 1.0 1.0

Latvia 1.0 1.0 2.0 1.0

Lebanon 2.0 1.0 1.0 1.0

Lesotho 1.0 2.0 1.0 1.0

Liberia 2.0 1.0 1.0 1.0

Libya 1.0 2.0 1.0 1.0

Lithuania 1.0 1.0 2.0 1.0

Luxembourg 1.0 1.0 1.0 2.0

Macedonia 1.0 2.0 1.0 1.0

Madagascar 1.0 2.0 1.0 1.0

Malawi 2.0 1.0 1.0 1.0

Malaysia 1.0 2.0 1.0 1.0

Maldives 1.0 2.0 1.0 1.0

Mali 1.0 2.0 1.0 1.0

Malta 1.0 1.0 2.0 1.0

Mauritania 1.0 2.0 1.0 1.0

Mauritius 1.0 1.0 2.0 1.0

Mexico 1.0 2.0 1.0 1.0

Micronesia 1.0 2.0 1.0 1.0

Moldova 1.0 2.0 1.0 1.0

Mongolia 1.0 1.0 2.0 1.0

Montenegro 1.0 1.0 2.0 1.0

Morocco 1.0 2.0 1.0 1.0

Mozambique 1.0 2.0 1.0 1.0

Myanmar 2.0 1.0 1.0 1.0

Namibia 1.0 2.0 1.0 1.0

Nepal 2.0 1.0 1.0 1.0

Netherlands 1.0 1.0 1.0 2.0

New Zealand 1.0 1.0 1.0 2.0

Nicaragua 1.0 2.0 1.0 1.0

Niger 2.0 1.0 1.0 1.0

Nigeria 2.0 1.0 1.0 1.0

North Korea 2.0 1.0 1.0 1.0

Norway 1.0 1.0 1.0 2.0

Oman 1.0 1.0 2.0 1.0

Pakistan 2.0 1.0 1.0 1.0

Panama 1.0 1.0 2.0 1.0

Papua New Guinea 1.0 2.0 1.0 1.0

Paraguay 1.0 2.0 1.0 1.0

Peru 1.0 2.0 1.0 1.0

Philippines 1.0 2.0 1.0 1.0

Poland 1.0 1.0 2.0 1.0

Portugal 1.0 1.0 1.0 2.0

Qatar 1.0 1.0 2.0 1.0

Romania 1.0 1.0 2.0 1.0

Russia 1.0 2.0 1.0 1.0

Rwanda 1.0 2.0 1.0 1.0

Samoa 1.0 2.0 1.0 1.0

Sao Tome and Principe 1.0 2.0 1.0 1.0

Saudi Arabia 1.0 2.0 1.0 1.0

Senegal 1.0 2.0 1.0 1.0

Serbia 1.0 2.0 1.0 1.0

Seychelles 1.0 2.0 1.0 1.0

Sierra Leone 2.0 1.0 1.0 1.0

Singapore 1.0 1.0 1.0 2.0

Slovak Republic 1.0 1.0 2.0 1.0

Slovenia 1.0 1.0 1.0 2.0

Solomon Islands 1.0 2.0 1.0 1.0

Somalia 2.0 1.0 1.0 1.0

South Africa 1.0 2.0 1.0 1.0

South Korea 1.0 1.0 1.0 2.0

Spain 1.0 1.0 2.0 1.0

Sri Lanka 2.0 1.0 1.0 1.0

Sudan 2.0 1.0 1.0 1.0

Suriname 1.0 2.0 1.0 1.0

Swaziland 1.0 2.0 1.0 1.0

Sweden 1.0 1.0 1.0 2.0

Switzerland 1.0 1.0 1.0 2.0

Syria 1.0 2.0 1.0 1.0

Tajikistan 1.0 2.0 1.0 1.0

Tanzania 1.0 2.0 1.0 1.0

Thailand 1.0 2.0 1.0 1.0

Timor-Leste 2.0 1.0 1.0 1.0

Togo 1.0 2.0 1.0 1.0

Trinidad and Tobago 1.0 1.0 2.0 1.0

Tunisia 1.0 2.0 1.0 1.0

Turkey 1.0 2.0 1.0 1.0

Turkmenistan 1.0 2.0 1.0 1.0

Uganda 2.0 1.0 1.0 1.0

Ukraine 1.0 2.0 1.0 1.0

United Arab Emirates 1.0 1.0 2.0 1.0

United Kingdom 1.0 1.0 1.0 2.0

United States 1.0 1.0 1.0 2.0

Uruguay 1.0 1.0 1.0 2.0

Uzbekistan 2.0 1.0 1.0 1.0

Venezuela 1.0 2.0 1.0 1.0

Vietnam 1.0 2.0 1.0 1.0

Yemen 2.0 1.0 1.0 1.0

Zambia 1.0 2.0 1.0 1.0

Zimbabwe 2.0 1.0 1.0 1.0

[total] 214.0 263.0 205.0 203.0

Year

mean 2010 2010 2010 2010

std. dev. 0.0017 0.0017 0.0017 0.0017

weight sum 37 86 28 26

precision 0.01 0.01 0.01 0.01

Rank

6th 2.0 1.0 1.0 1.0

121st 1.0 2.0 1.0 1.0

71st 1.0 2.0 1.0 1.0

59th 1.0 2.0 1.0 1.0

127th 1.0 1.0 2.0 1.0

148th 1.0 1.0 2.0 1.0

101st 1.0 2.0 1.0 1.0

168th 1.0 1.0 1.0 3.0

170th 1.0 1.0 1.0 2.0

55th 1.0 2.0 1.0 1.0

132nd 1.0 1.0 2.0 1.0

133rd 1.0 1.0 2.0 1.0

24th 2.0 1.0 1.0 1.0

135th 1.0 1.0 3.0 1.0

82nd 1.0 3.0 1.0 1.0

163rd 1.0 1.0 1.0 2.0

112th 1.0 2.0 1.0 1.0

93rd 1.0 3.0 1.0 1.0

50th 1.0 2.0 1.0 1.0

53rd 1.0 2.0 1.0 1.0

60th 1.0 2.0 1.0 1.0

113th 1.0 2.0 1.0 1.0

119th 1.0 3.0 1.0 1.0

117th 1.0 2.0 1.0 1.0

126th 1.0 1.0 2.0 1.0

35th 2.0 1.0 1.0 1.0

23rd 2.0 1.0 1.0 1.0

40th 1.0 4.0 1.0 1.0

26th 3.0 1.0 1.0 1.0

166th 1.0 1.0 1.0 3.0

88th 1.0 2.0 1.0 1.0

8th 2.0 1.0 1.0 1.0

2nd 2.0 1.0 1.0 1.0

155th 1.0 1.0 1.0 2.0

62nd 1.0 2.0 1.0 1.0

46th 1.0 2.0 1.0 1.0

52nd 1.0 2.0 1.0 1.0

5th 2.0 1.0 1.0 1.0

31st 2.0 1.0 1.0 1.0

138th 1.0 1.0 2.0 1.0

12th 2.0 1.0 1.0 1.0

131st 1.0 1.0 2.0 1.0

77th 1.0 2.0 1.0 1.0

114th 1.0 2.0 1.0 1.0

152nd 1.0 1.0 1.0 2.0

172nd 1.0 1.0 1.0 2.0

68th 1.0 2.0 1.0 1.0

69th 1.0 3.0 1.0 1.0

49th 1.0 2.0 1.0 1.0

85th 1.0 2.0 1.0 1.0

44th 1.0 2.0 1.0 1.0

30th 2.0 1.0 1.0 1.0

140th 1.0 1.0 2.0 1.0

17th 2.0 1.0 1.0 1.0

74th 1.0 2.0 1.0 1.0

176th 1.0 1.0 1.0 2.0

159th 1.0 1.0 1.0 2.0

98th 1.0 2.0 1.0 1.0

75th 1.0 2.0 1.0 1.0

37th 2.0 1.0 1.0 1.0

157th 1.0 1.0 1.0 2.0

122nd 1.0 2.0 1.0 1.0

147th 1.0 1.0 2.0 1.0

123rd 1.0 2.0 1.0 1.0

72nd 1.0 3.0 1.0 1.0

9th 2.0 1.0 1.0 1.0

22nd 2.0 1.0 1.0 1.0

102nd 1.0 2.0 1.0 1.0

11th 2.0 1.0 1.0 1.0

76th 1.0 2.0 1.0 1.0

141st 1.0 1.0 2.0 1.0

165th 1.0 1.0 1.0 2.0

79th 1.0 2.0 1.0 1.0

61st 1.0 2.0 1.0 1.0

32nd 2.0 1.0 1.0 1.0

7th 2.0 1.0 1.0 1.0

173rd 1.0 1.0 1.0 2.0

54th 1.0 2.0 1.0 1.0

149th 1.0 1.0 2.0 1.0

164th 1.0 1.0 1.0 2.0

90th 1.0 3.0 1.0 1.0

103rd 1.0 3.0 1.0 1.0

13th 2.0 1.0 1.0 1.0

125th 1.0 1.0 2.0 1.0

45th 1.0 2.0 1.0 1.0

34th 2.0 1.0 1.0 1.0

67th 1.0 2.0 1.0 1.0

33rd 2.0 1.0 1.0 1.0

111th 1.0 2.0 1.0 1.0

146th 1.0 1.0 2.0 1.0

64th 1.0 2.0 1.0 1.0

28th 3.0 1.0 1.0 1.0

110th 1.0 2.0 1.0 1.0

84th 1.0 2.0 1.0 1.0

78th 1.0 2.0 1.0 1.0

145th 1.0 1.0 2.0 1.0

39th 1.0 2.0 1.0 1.0

150th 1.0 1.0 2.0 1.0

96th 1.0 2.0 1.0 1.0

108th 1.0 2.0 1.0 1.0

58th 1.0 2.0 1.0 1.0

129th 1.0 1.0 2.0 1.0

134th 1.0 1.0 2.0 1.0

16th 2.0 1.0 1.0 1.0

100th 1.0 2.0 1.0 1.0

171st 1.0 1.0 1.0 2.0

65th 1.0 3.0 1.0 1.0

19th 3.0 1.0 1.0 1.0

14th 2.0 1.0 1.0 1.0

177th 1.0 1.0 1.0 2.0

144th 1.0 1.0 2.0 1.0

10th 2.0 1.0 1.0 1.0

130th 1.0 1.0 2.0 1.0

56th 1.0 3.0 1.0 1.0

106th 1.0 2.0 1.0 1.0

92nd 1.0 2.0 1.0 1.0

51st 1.0 2.0 1.0 1.0

142nd 1.0 1.0 2.0 1.0

162nd 1.0 1.0 1.0 2.0

139th 1.0 1.0 2.0 1.0

128th 1.0 1.0 2.0 1.0

80th 1.0 2.0 1.0 1.0

107th 1.0 2.0 1.0 1.0

97th 1.0 2.0 1.0 1.0

87th 1.0 2.0 1.0 1.0

99th 1.0 2.0 1.0 1.0

86th 1.0 2.0 1.0 1.0

115th 1.0 3.0 1.0 1.0

160th 1.0 1.0 1.0 2.0

143rd 1.0 1.0 2.0 1.0

156th 1.0 1.0 1.0 2.0

43rd 1.0 2.0 1.0 1.0

1st 2.0 1.0 1.0 1.0

153rd 1.0 1.0 1.0 3.0

151st 1.0 1.0 2.0 1.0

25th 2.0 1.0 1.0 1.0

3rd 2.0 1.0 1.0 1.0

105th 1.0 2.0 1.0 1.0

63rd 1.0 2.0 1.0 1.0

175th 1.0 1.0 1.0 2.0

174th 1.0 1.0 1.0 2.0

48th 1.0 2.0 1.0 1.0

38th 1.0 2.0 1.0 1.0

81st 1.0 2.0 1.0 1.0

18th 2.0 1.0 1.0 1.0

47th 1.0 2.0 1.0 1.0

124th 1.0 1.0 2.0 1.0

118th 1.0 2.0 1.0 1.0

89th 1.0 2.0 1.0 1.0

21st 2.0 1.0 1.0 1.0

109th 1.0 2.0 1.0 1.0

137th 1.0 1.0 2.0 1.0

161st 1.0 1.0 1.0 2.0

158th 1.0 1.0 1.0 2.0

36th 2.0 1.0 1.0 1.0

95th 1.0 2.0 1.0 1.0

15th 2.0 1.0 1.0 1.0

4th 2.0 1.0 1.0 1.0

[total] 195.0 244.0 186.0 184.0

C1: Security Apparatus

mean 8.4036 6.3393 3.8527 1.6881

std. dev. 1.0939 1.029 1.1545 0.6124

weight sum 37 86 28 26

precision 0.1233 0.1233 0.1233 0.1233

C2: Factionalized Elites

mean 8.7636 6.7964 4.4864 2.1062

std. dev. 0.7135 1.2955 1.2343 0.9375

weight sum 37 86 28 26

precision 0.1268 0.1268 0.1268 0.1268

C3: Group Grievance

mean 8.1916 6.327 4.659 3.123

std. dev. 1.1962 1.2562 0.8776 1.1912

weight sum 37 86 28 26

precision 0.1219 0.1219 0.1219 0.1219

E1: Economy

mean 7.9258 6.3494 4.9618 3.5256

std. dev. 1.047 1.117 0.6762 0.9965

weight sum 37 86 28 26

precision 0.1194 0.1194 0.1194 0.1194

E2: Economic Inequality

mean 8.4494 7.3465 5.6074 3.6242

std. dev. 0.7426 0.8442 0.9524 1.1499

weight sum 37 86 28 26

precision 0.1258 0.1258 0.1258 0.1258

E3: Human Flight and Brain Drain

mean 7.385 6.3318 4.3652 2.2803

std. dev. 1.0398 1.1594 1.4711 1.1093

weight sum 37 86 28 26

precision 0.1303 0.1303 0.1303 0.1303

P1: State Legitimacy

mean 8.8188 7.2083 5.0011 1.9315

std. dev. 0.798 0.966 1.098 0.911

weight sum 37 86 28 26

precision 0.1329 0.1329 0.1329 0.1329

P2: Public Services

mean 8.4079 6.4973 3.8659 2.0375

std. dev. 1.0274 1.3057 0.7955 0.8271

weight sum 37 86 28 26

precision 0.1147 0.1147 0.1147 0.1147

P3: Human Rights

mean 8.3875 6.5757 4.2473 2.3059

std. dev. 0.9786 1.2845 1.1653 0.8528

weight sum 37 86 28 26

precision 0.1229 0.1229 0.1229 0.1229

S1: Demographic Pressures

mean 8.6045 7.0709 4.6695 2.8978

std. dev. 0.8342 1.0663 0.7174 0.8406

weight sum 37 86 28 26

precision 0.1338 0.1338 0.1338 0.1338

S2: Refugees and IDPs

mean 7.9022 5.3333 3.3006 2.1455

std. dev. 1.2926 1.5149 1.1265 0.808

weight sum 37 86 28 26

precision 0.1182 0.1182 0.1182 0.1182

X1: External Intervention

mean 8.2179 6.4067 4.524 2.5667

std. dev. 1.1198 1.2318 1.221 1.3183

weight sum 37 86 28 26

precision 0.1213 0.1213 0.1213 0.1213

L1: Literacy rate adult

mean 83.369 81.9459 86.1565 84.8017

std. dev. 9.4763 10.3424 5.0712 5.2301

weight sum 37 86 28 26

precision 1.7738 1.7738 1.7738 1.7738

A1: Exports and imports

mean 83.6613 91.4185 92.0445 87.6136

std. dev. 38.7643 56.901 40.1887 59.377

weight sum 37 86 28 26

precision 2.7712 2.7712 2.7712 2.7712

A2: Foreign direct investment net inflows

mean 4.8166 7.305 5.2658 3.8956

std. dev. 9.6379 14.4659 6.5315 2.9426

weight sum 37 86 28 26

precision 1.2821 1.2821 1.2821 1.2821

R1: Life expectancy at birth

mean 72.0642 68.6896 68.7592 72.3701

std. dev. 7.7924 8.6289 9.7581 7.2917

weight sum 37 86 28 26

precision 0.3185 0.3185 0.3185 0.3185

R2: Life expectancy Index

mean 0.8006 0.7487 0.7504 0.8054

std. dev. 0.12 0.1327 0.1507 0.1125

weight sum 37 86 28 26

precision 0.0044 0.0044 0.0044 0.0044

U1: Unemployment total

mean 8.3382 7.6329 9.1601 8.1089

std. dev. 5.8628 6.2611 6.8114 5.0762

weight sum 34 76 27 22

precision 0.3119 0.3119 0.3119 0.3119

Outlier

no 36.0 82.0 27.0 27.0

yes 3.0 6.0 3.0 1.0

[total] 39.0 88.0 30.0 28.0

ExtremeValue

no 32.0 64.0 21.0 19.0

yes 7.0 24.0 9.0 9.0

[total] 39.0 88.0 30.0 28.0

Time taken to build model: 0 seconds

=== Evaluation on training set ===

Time taken to test model on training data: 0 seconds

=== Summary ===

Correctly Classified Instances 176 99.435 %

Incorrectly Classified Instances 1 0.565 %

Kappa statistic 0.9916

Mean absolute error 0.007

Root mean squared error 0.0494

Relative absolute error 2.074 %

Root relative squared error 12.0302 %

Total Number of Instances 177

=== Detailed Accuracy By Class ===

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

1.000 0.007 0.974 1.000 0.987 0.983 1.000 1.000 Alert

0.988 0.000 1.000 0.988 0.994 0.989 1.000 1.000 Warning

1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 Stable

1.000 0.000 1.000 1.000 1.000 1.000 1.000 1.000 Sustainable

Weighted Avg. 0.994 0.001 0.994 0.994 0.994 0.991 1.000 1.000

=== Confusion Matrix ===

a b c d <-- classified as

37 0 0 0 | a = Alert

1 85 0 0 | b = Warning

0 0 28 0 | c = Stable

0 0 0 26 | d = Sustainable