

Distribution of 'age' grouped by 'class'

Settings

**Sampling type:** No sampling, test on testing data  
**Target class:** Average over classes

Scores

| Method           | AUC   | CA    | F1    | Precision | Recall |
|------------------|-------|-------|-------|-----------|--------|
| CN2 rule inducer | 0.802 | 0.819 | 0.821 | 0.823     | 0.819  |
| Tree             | 0.818 | 0.817 | 0.819 | 0.822     | 0.817  |
| Naive Bayes      | 0.833 | 0.777 | 0.795 | 0.837     | 0.777  |
| Random Forest    | 0.848 | 0.811 | 0.733 | 0.781     | 0.811  |

Adolescent

0  
99.4%, 843/848

0  
50.2%, 840/1676  
F01

1  
50.9%, 828/1630  
H61

0  
52.6%, 789/1499  
S72

0  
53.4%, 785/1472  
S44

1  
54.8%, 757/1381  
S20

0  
55.6%, 754/1357  
F20

1  
56.0%, 754/1347  
R33

0  
87.5%, 21/24

0  
68.1%, 62/91  
H49

0  
65.9%, 56/85  
S41

0  
68.8%, 53/77  
I20

1  
62.5%, 5/8

0  
88.9%, 24/27  
S70

0  
82.4%, 14/17

1  
100%, 10/10

0  
67.5%, 83/123  
H90

0  
63.4%, 64/101  
H42

0  
61.1%, 58/95  
H10

0  
64.8%, 57/88  
I25

1  
85.7%, 6/7

0  
69.5%, 91/130  
M51

0  
67.5%, 83/123  
H90

0  
63.4%, 64/101  
H42

0  
61.1%, 58/95  
H10

0  
64.8%, 57/88  
I25

1  
85.7%, 6/7

0  
86.4%, 19/22  
H52

0  
88.2%, 15/17  
I25

0  
91.7%, 11/12

0  
80.0%, 4/5

**Features:** A00, A01, A02, A04, A05, A06, A07, A08, A09, A15, A16, A17, A18, A20, A23, A24, A30, A37, A38, A39, A40, A41, A44, A46, A49, A60, A63, A69, A74, A78, A87, A88, A89, A98, B00, B01, B02, B05, B06, B07, B08, B09, B15, B16, B17, B18  
B19, B20, B26, B27, B30, B33, B34, B35, B36, B37, B49, B67, B71, B77, B80, B82, B83, B85, B86, B88, B90, B91, B94, B95, B96, B97, C00, C01, C02, C04, C05, C07, C08, C10, C11, C13, C15, C16, C17, C18, C19, C20, C21, C22, C24, C25, C26, C30,  
C32, C33, C34, C38, C40, C41, C43, C44, C45, C46, C47, C48, C49, C50, C51, C52, C53, C54, C55, C56, C57, C60, C61, C62, C64, C65, C66, C67, C68, C69, C70, C71, C72, C73, C74, C76, C77, C78, C79, C80, C81, C82, C83, C84, C85, C88, C90, C91  
C92, C95, D00, D01, D02, D04, D06, D07, D09, D10, D11, D12, D13, D14, D15, D16, D17, D18, D19, D20, D21, D22, D23, D24, D25, D26, D27, D28, D29, D30, D31, D32, D33, D34, D35, D36, D37, D38, D39, D40, D41, D42, D43, D44, D45, D46, D47, D48,  
D50, D51, D53, D55, D56, D58, D59, D60, D61, ... (total: 1275 features)

**Target:** class

**Rule ordering:** ordered  
**Covering algorithm:** exclusive  
**Gamma:** 0.7  
**Evaluation measure:** entropy  
**Beam width:** 5  
**Minimum rule coverage:** 2  
**Maximum rule length:** 5  
**Default alpha:** 1.0  
**Parent alpha:** 1.0

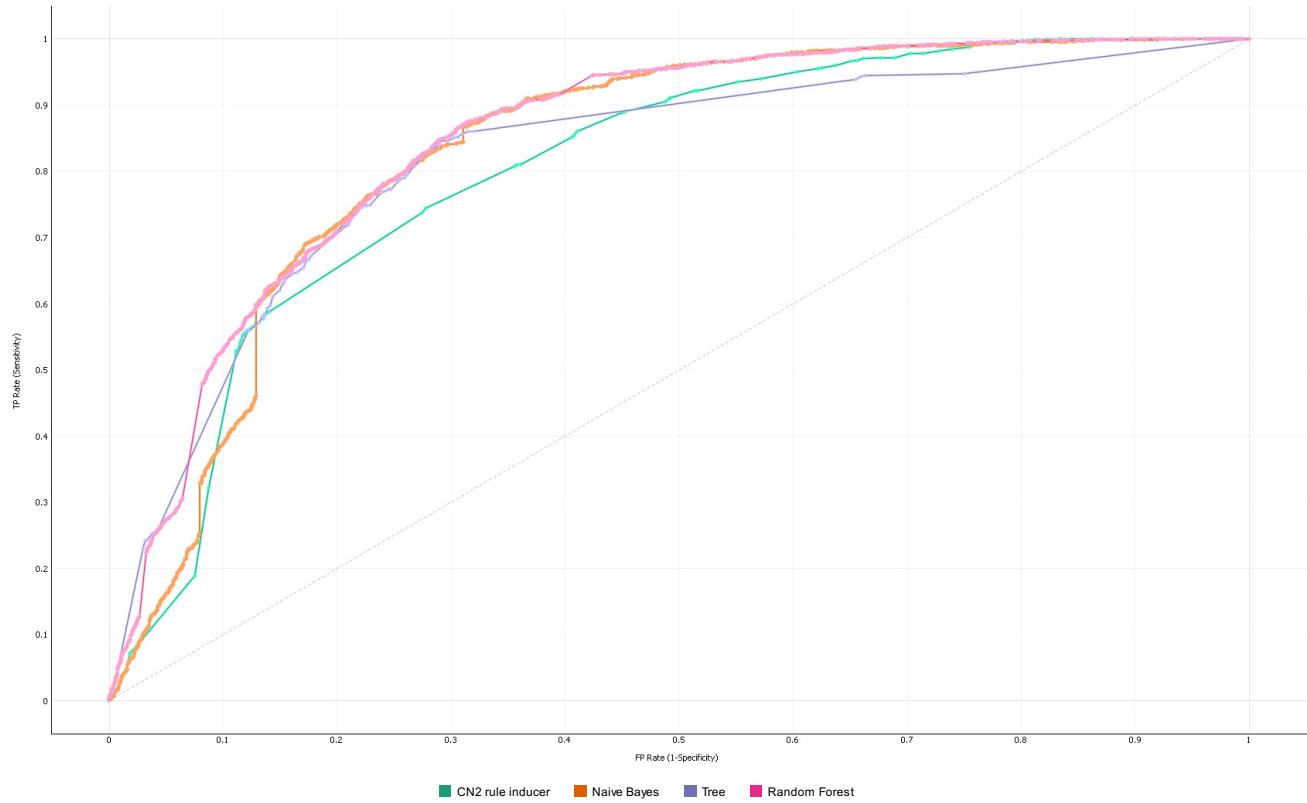
|     | IF conditions       | THEN class      | Distribution    | Probabilities [%] | Quality | Length |   |
|-----|---------------------|-----------------|-----------------|-------------------|---------|--------|---|
| 153 |                     | N04#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 161 |                     | N73#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 165 |                     | K14#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 1      |   |
| 237 |                     | S89#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 1      |   |
| 401 |                     | O13#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 1      |   |
| 417 |                     | R70#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 452 | age=Young adult AND | E89#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 459 |                     | G47#0 → class=1 | [0, 5]          | 14 : 86           | -0.00   | 1      |   |
| 519 |                     | K61#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 530 | Z34#0 AND           | E03#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 594 | Z34#0 AND           | L23#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 606 |                     | T17#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 620 |                     | A15#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 633 |                     | A01#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 639 | S92#0 AND           | F41#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 650 | Z02#0 AND           | E11#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 2      |   |
| 656 |                     | Z02#0 AND       | I20#0 → class=1 | [0, 3]            | 20 : 80 | -0.00  | 2 |
| 662 | Z02#0 AND           | K21#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 679 |                     | R49#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 741 |                     | L65#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 749 | S92#0 AND age=Elder | → class=1       | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 758 |                     | D47#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 762 | K01#0 AND           | E07#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 773 |                     | C22#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 1      |   |
| 774 | K01#0 AND           | D23#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 781 | T15#0 AND           | F41#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 788 | T15#0 AND           | I69#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 791 | T15#0 AND           | L02#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 2      |   |
| 796 | T15#0 AND           | L50#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 799 | T15#0 AND           | K76#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 802 | T15#0 AND           | I42#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |
| 809 | T15#0 AND           | I20#0 → class=1 | [0, 3]          | 20 : 80           | -0.00   | 2      |   |
| 815 | H34#0 AND           | E78#0 → class=1 | [0, 5]          | 14 : 86           | -0.00   | 2      |   |
| 818 | T15#0 AND           | I83#0 → class=1 | [0, 2]          | 25 : 75           | -0.00   | 2      |   |

|      |                 |                     |           |        |         |       |   |
|------|-----------------|---------------------|-----------|--------|---------|-------|---|
| 834  |                 | N03#0               | → class=1 | [0, 4] | 17 : 83 | -0.00 | 1 |
| 836  |                 | N97#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 878  |                 | N62#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 910  | age=Young adult | AND T15#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 922  |                 | D35#0               | → class=1 | [0, 3] | 20 : 80 | -0.00 | 1 |
| 928  |                 | F25#0 AND A09#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 931  |                 | F31#0 AND E10#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 934  |                 | F20#0 AND F21#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 940  |                 | I22#0 AND H81#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 941  |                 | I31#0 AND G44#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 943  |                 | K11#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 944  |                 | K20#0 AND F41#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 955  |                 | A46#0               | → class=1 | [0, 3] | 20 : 80 | -0.00 | 1 |
| 967  | age=Adolescent  | AND H52#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 972  |                 | K02#0 AND H25#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 985  |                 | G63#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 989  |                 | C53#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1003 | age=Young adult | AND J31#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1032 |                 | T15#0 AND S61#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1052 | age=Young adult | AND Z01#0           | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |
| 1066 | age=Young adult | AND S00#0 AND M54#0 | → class=1 | [0, 2] | 25 : 75 | -0.00 | 3 |
| 1073 | age=Young adult | AND S80#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1083 |                 | R45#0 AND R07#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1090 | age=Young adult | AND H43#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1093 | age=Young adult | AND S90#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1095 |                 | G24#0               | → class=1 | [0, 3] | 20 : 80 | -0.00 | 1 |
| 1107 |                 | Z13#0 AND F41#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1112 |                 | K00#0 AND G44#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1113 |                 | K00#0 AND G45#0     | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |
| 1122 |                 | K00#0 AND J30#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1125 |                 | K00#0 AND H91#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1135 |                 | B96#0 AND Z01#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1138 |                 | F06#0 AND C54#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 1146 | age=Young adult | AND H10#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1147 | age=Young adult | AND H90#0           | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |
| 1153 |                 | H18#0 AND H52#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1164 |                 | Z46#0 AND E78#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1165 |                 | Z89#0 AND E11#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1170 | age=Young adult | AND Z00#0           | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1174 |                 | K00#0 AND L50#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1184 |                 | N18#0 AND E07#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1186 |                 | C67#0 AND K80#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1187 |                 | N18#0 AND E78#0     | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |
| 1188 |                 | C67#0 AND N30#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1189 |                 | N18#0 AND H25#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1191 |                 | F20#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1195 |                 | D18#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1197 |                 | F44#0 AND A09#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1201 |                 | F00#0 AND F41#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1207 |                 | K04#0 AND B07#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1213 |                 | F01#0 AND E11#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1218 |                 | I26#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1221 |                 | S60#0 AND I42#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1233 |                 | S90#0 AND D50#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1236 |                 | J39#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1246 |                 | S42#0 AND D17#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1249 |                 | L27#0 AND B34#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 1251 |                 | D48#0 AND R10#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1255 |                 | K04#0 AND E04#0     | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |
| 1258 |                 | I71#0 AND M19#0     | → class=1 | [0, 4] | 17 : 83 | -0.00 | 2 |
| 1261 |                 | K04#0 AND I49#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1266 |                 | K62#0 AND E78#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1267 | age=Young adult | AND K04#0 AND M79#0 | → class=1 | [0, 2] | 25 : 75 | -0.00 | 3 |
| 1275 |                 | N28#0 AND E03#0     | → class=1 | [0, 2] | 25 : 75 | -0.00 | 2 |
| 1277 |                 | W45#0               | → class=1 | [0, 2] | 25 : 75 | -0.00 | 1 |
| 1283 |                 | S61#0 AND E11#0     | → class=1 | [0, 3] | 20 : 80 | -0.00 | 2 |

+ 2307 more



Target class: 1



Calibration Plot

Target class: 1

