

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
Random Forest	0.823	0.992	0.989	0.985	0.992
Tree	0.500	0.992	0.989	0.985	0.992
CN2 rule inducer	0.780	0.988	0.988	0.988	0.988
Naive Bayes	0.849	0.959	0.972	0.987	0.959



Tree size: 1 nodes, 1 leaves
Edge widths: Fixed
Target class: None



Data domain

Features: A00-A09, A15-A19, A20-A28, A30-A49, A50-A64, A65-A69, A70-A74, A75-A79, A80-A89, A90-A99, B00-B09, B15-B19, B20-B20, B25-B34, B35-B49, B65-B83, B85-B89, B90-B94, B95-B97, C00-C14, C30-C39, C40-C41, C43-C44, C45-C49, C50-C50, C51-C58, C60-C63, C64-C68, C69-C72, C73-C75, C76-C80, C81-C96, D00-D09, D10-D36, D37-D48, D50-D53, D55-D59, D60-D64, D65-D69, D70-D77, D80-D89, E00-E07, E08-E13, E14-E14, E15-E16, E20-E35, E40-E46, E50-E64, E65-E68, E70-E88, E89-E89, F01-F09, F10-F19, F20-F29, F30-F39, F40-F48, F50-F59, F60-F69, F70-F79, F80-F89, F90-F98, G00-G09, G10-G14, G20-G26, G30-G32, G35-G37, G40-G47, G50-G59, G60-G65, G70-G73, G80-G83, G89-G99, H00-H05, H10-H11, H15-H22, H25-H28, H30-H36, H40-H42, H43-H44, H46-H47, H49-H52, H53-H54, H55-H57, H60-H62, H65-H75, H80-H83, H90-H94, H95-H95, I00-I02, I05-I09, I10-I16, I20-I25, I26-I28, I30-I52, I60-I69, I70-I79, I80-I89, I95-I99, J00-J06, J09-J18, J20-J22, J30-J39, J40-J47, J60-J70, J80-J84, J85-J86, J90-J94, J95-J95, J96-J99, K00-K14, ... (total: 243 features)
Target: class

Rule induction algorithm

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

Induced rules

	IF conditions	THEN class	Distribution	Probabilities [%]	Quality	Length
323		F60-F69#0 → class=1	[0, 2]	25 : 75	-0.00	1
340		B95-B97#0 → class=1	[0, 2]	25 : 75	-0.00	1
400	age=Middle-aged adult AND I10-I16#0 AND R50-R69#0	→ class=1	[0, 2]	25 : 75	-0.00	3
402	H10-H11#0 AND B35-B49#0	→ class=1	[0, 2]	25 : 75	-0.00	2
418	H49-H52#0 AND E08-E13#0	→ class=1	[0, 2]	25 : 75	-0.00	2
429		N80-N98#0 → class=1	[0, 3]	20 : 80	-0.00	1
431		H30-H36#0 → class=1	[0, 2]	25 : 75	-0.00	1
439	R10-R19=0 AND K90-K95#0	→ class=1	[0, 2]	25 : 75	-0.00	2
445		D00-D09#0 → class=1	[0, 2]	25 : 75	-0.00	1
447	age=Middle-aged adult AND C76-C80#0	→ class=1	[0, 3]	20 : 80	-0.00	2
460		N60-N65#0 → class=1	[0, 2]	25 : 75	-0.00	1
462	Z00-Z13#0 AND J40-J47#0	→ class=1	[0, 2]	25 : 75	-0.00	2
471		D10-D36#0 → class=1	[0, 2]	25 : 75	-0.00	1
472		L00-L08#0 → class=1	[0, 2]	25 : 75	-0.00	1
483	E08-E13#0 AND R10-R19#0	→ class=1	[0, 2]	25 : 75	-0.00	2
504		C76-C80#0 → class=1	[0, 3]	20 : 80	-0.00	1
511	age=Middle-aged adult AND K55-K64#0	→ class=1	[0, 5]	14 : 86	-0.00	2
516		E00-E07#0 → class=1	[0, 2]	25 : 75	-0.00	1
529		K40-K46#0 → class=1	[0, 2]	25 : 75	-0.00	1
530	N20-N23#0 AND I20-I25#0	→ class=1	[0, 2]	25 : 75	-0.00	2
537	I30-I52#0 AND D50-D53#0	→ class=1	[0, 2]	25 : 75	-0.00	2
550		I30-I52#0 → class=1	[0, 2]	25 : 75	-0.00	1
552		K55-K64#0 → class=1	[0, 2]	25 : 75	-0.00	1
556		K00-K14#0 → class=1	[0, 3]	20 : 80	-0.00	1
558		N20-N23#0 → class=1	[0, 2]	25 : 75	-0.00	1
560		H60-H62#0 → class=1	[0, 2]	25 : 75	-0.00	1
562	J40-J47#0 AND K20-K31#0	→ class=1	[0, 2]	25 : 75	-0.00	2
566		C50-C50#0 → class=1	[0, 2]	25 : 75	-0.00	1
567		H90-H94#0 → class=1	[0, 2]	25 : 75	-0.00	1
569	K20-K31#0 AND R00-R09=0	→ class=1	[0, 2]	25 : 75	-0.00	2
573	age=Middle-aged adult AND A15-A19=0 AND S10-S19=0 AND K20-K31=0	→ class=1	[0, 8]	10 : 90	-0.00	4
577		J40-J47#0 → class=1	[1, 2]	40 : 60	-0.918	1
579		R10-R19#0 → class=1	[0, 2]	25 : 75	-0.00	1
581	G30-G32=0 AND K70-K77=0 AND R30-R39=0 AND K20-K31=0	→ class=1	[0, 5]	14 : 86	-0.00	4
583		TRUE → class=1	[1, 2]	40 : 60	-0.918	
		A30-A49#0 → class=0	[26, 0]	96 : 4	-0.00	1
1		A50-A64#0 → class=0	[40, 0]	98 : 2	-0.00	1
2		A80-A89#0 → class=0	[3, 0]	80 : 20	-0.00	1
3		B00-B09#0 → class=0	[375, 0]	100 : 0	-0.00	1
4		B25-B34#0 → class=0	[180, 0]	99 : 1	-0.00	1
5		B65-B83#0 → class=0	[13, 0]	93 : 7	-0.00	1
6		B85-B89#0 → class=0	[64, 0]	98 : 2	-0.00	1
7		B90-B94#0 → class=0	[15, 0]	94 : 6	-0.00	1
8		C40-C41#0 → class=0	[4, 0]	83 : 17	-0.00	1
9		C43-C44#0 → class=0	[69, 0]	99 : 1	-0.00	1
10		C60-C63#0 → class=0	[28, 0]	97 : 3	-0.00	1
11		C69-C72#0 → class=0	[19, 0]	95 : 5	-0.00	1
12		C73-C75#0 → class=0	[5, 0]	86 : 14	-0.00	1
13		C81-C96#0 → class=0	[23, 0]	96 : 4	-0.00	1
14		D55-D59#0 → class=0	[8, 0]	90 : 10	-0.00	1
15		D60-D64#0 → class=0	[42, 0]	98 : 2	-0.00	1
16		D70-D77#0 → class=0	[13, 0]	93 : 7	-0.00	1
17		D80-D89#0 → class=0	[5, 0]	86 : 14	-0.00	1
18		E14-E14#0 → class=0	[2, 0]	75 : 25	-0.00	1
19		E15-E16#0 → class=0	[8, 0]	90 : 10	-0.00	1
20		E40-E46#0 → class=0	[3, 0]	80 : 20	-0.00	1
21		E50-E64#0 → class=0	[48, 0]	98 : 2	-0.00	1
22		E65-E68#0 → class=0	[27, 0]	97 : 3	-0.00	1
23		E89-E89#0 → class=0	[7, 0]	89 : 11	-0.00	1
24		F10-F19#0 → class=0	[60, 0]	98 : 2	-0.00	1
25		F50-F59#0 → class=0	[18, 0]	95 : 5	-0.00	1
26		F70-F79#0 → class=0	[31, 0]	97 : 3	-0.00	1
27		F80-F89#0 → class=0	[53, 0]	98 : 2	-0.00	1
28		F90-F98#0 → class=0	[50, 0]	98 : 2	-0.00	1
29		G10-G14#0 → class=0	[3, 0]	80 : 20	-0.00	1
30		G20-G26#0 → class=0	[91, 0]	99 : 1	-0.00	1
31		G35-G37#0 → class=0	[17, 0]	95 : 5	-0.00	1
32		G60-G65#0 → class=0	[9, 0]	91 : 9	-0.00	1
33		G70-G73#0 → class=0	[7, 0]	89 : 11	-0.00	1
34		G89-G99#0 → class=0	[22, 0]	96 : 4	-0.00	1
35		H46-H47#0 → class=0	[14, 0]	94 : 6	-0.00	1
36		H55-H57#0 → class=0	[9, 0]	91 : 9	-0.00	1
37		H65-H75#0 → class=0	[634, 0]	100 : 0	-0.00	1
38		I05-I09#0 → class=0	[13, 0]	93 : 7	-0.00	1
39		I26-I28#0 → class=0	[9, 0]	91 : 9	-0.00	1
40		I95-I99#0 → class=0	[67, 0]	99 : 1	-0.00	1
41		J60-J70#0 → class=0	[3, 0]	80 : 20	-0.00	1

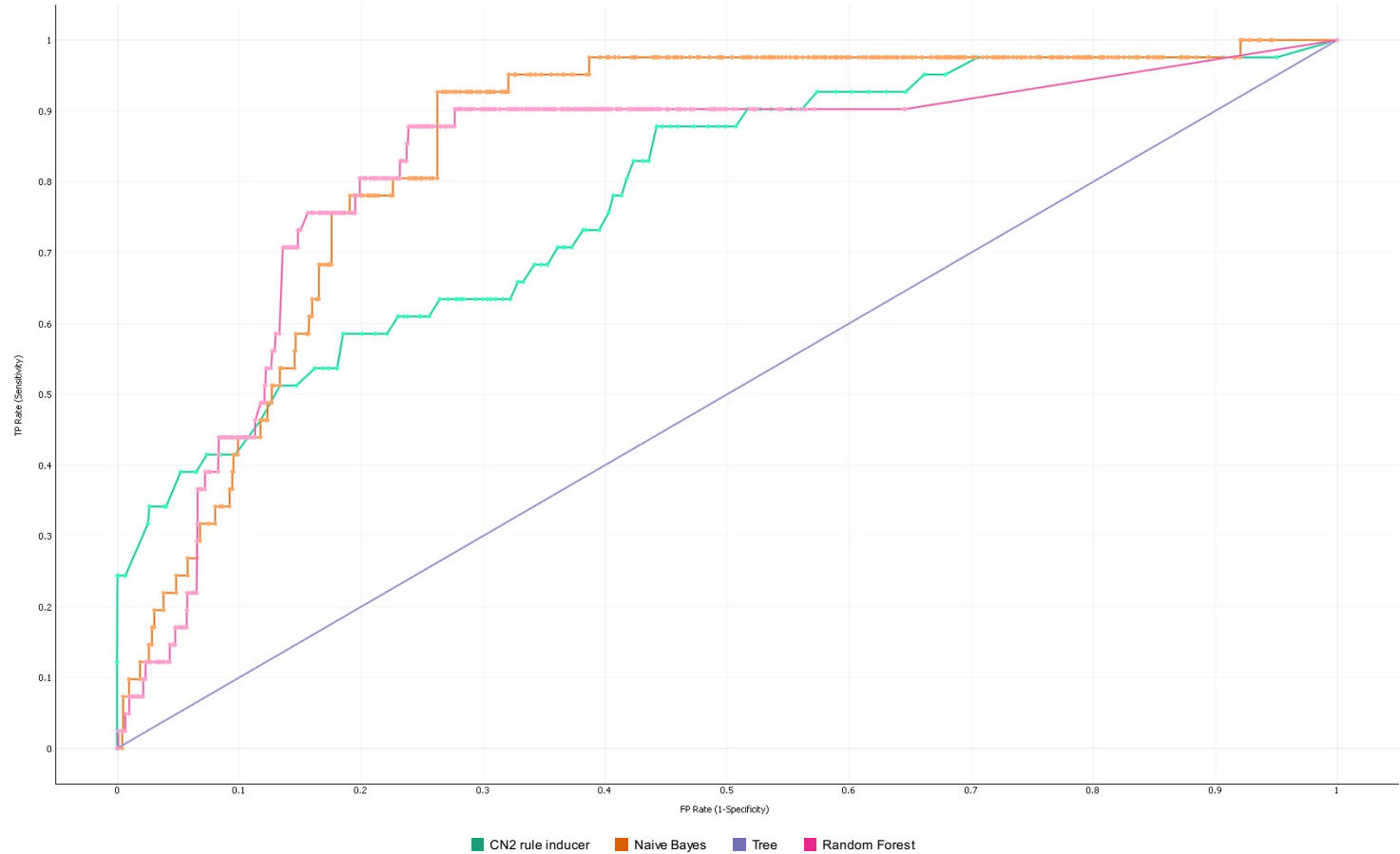
42	J80-J84#0	→ class=0	[18, 0]	95 : 5	-0.00	1
43	J85-J86#0	→ class=0	[3, 0]	80 : 20	-0.00	1
44	J90-J94#0	→ class=0	[35, 0]	97 : 3	-0.00	1
45	K35-K38#0	→ class=0	[40, 0]	98 : 2	-0.00	1
46	L40-L45#0	→ class=0	[63, 0]	98 : 2	-0.00	1
47	L60-L75#0	→ class=0	[320, 0]	100 : 0	-0.00	1
48	M00-M02#0	→ class=0	[6, 0]	88 : 12	-0.00	1
49	M20-M25#0	→ class=0	[395, 0]	100 : 0	-0.00	1
50	M30-M36#0	→ class=0	[10, 0]	92 : 8	-0.00	1
51	M40-M43#0	→ class=0	[228, 0]	100 : 0	-0.00	1
52	M60-M63#0	→ class=0	[25, 0]	96 : 4	-0.00	1
53	M65-M67#0	→ class=0	[105, 0]	99 : 1	-0.00	1
54	M86-M90#0	→ class=0	[8, 0]	90 : 10	-0.00	1
55	M91-M94#0	→ class=0	[14, 0]	94 : 6	-0.00	1
56	M96-M96#0	→ class=0	[4, 0]	83 : 17	-0.00	1
57	N00-N08#0	→ class=0	[14, 0]	94 : 6	-0.00	1
58	N25-N29#0	→ class=0	[32, 0]	97 : 3	-0.00	1
59	N70-N77#0	→ class=0	[47, 0]	98 : 2	-0.00	1
60	O00-O08#0	→ class=0	[71, 0]	99 : 1	-0.00	1
61	O09-O09#0	→ class=0	[9, 0]	91 : 9	-0.00	1
62	O10-O16#0	→ class=0	[17, 0]	95 : 5	-0.00	1
63	O20-O29#0	→ class=0	[73, 0]	99 : 1	-0.00	1
64	O30-O48#0	→ class=0	[76, 0]	99 : 1	-0.00	1

+ 484 more

ROC Analysis

Tue Jun 19 18, 19:35:00

Target class: 1



Target class: 1

