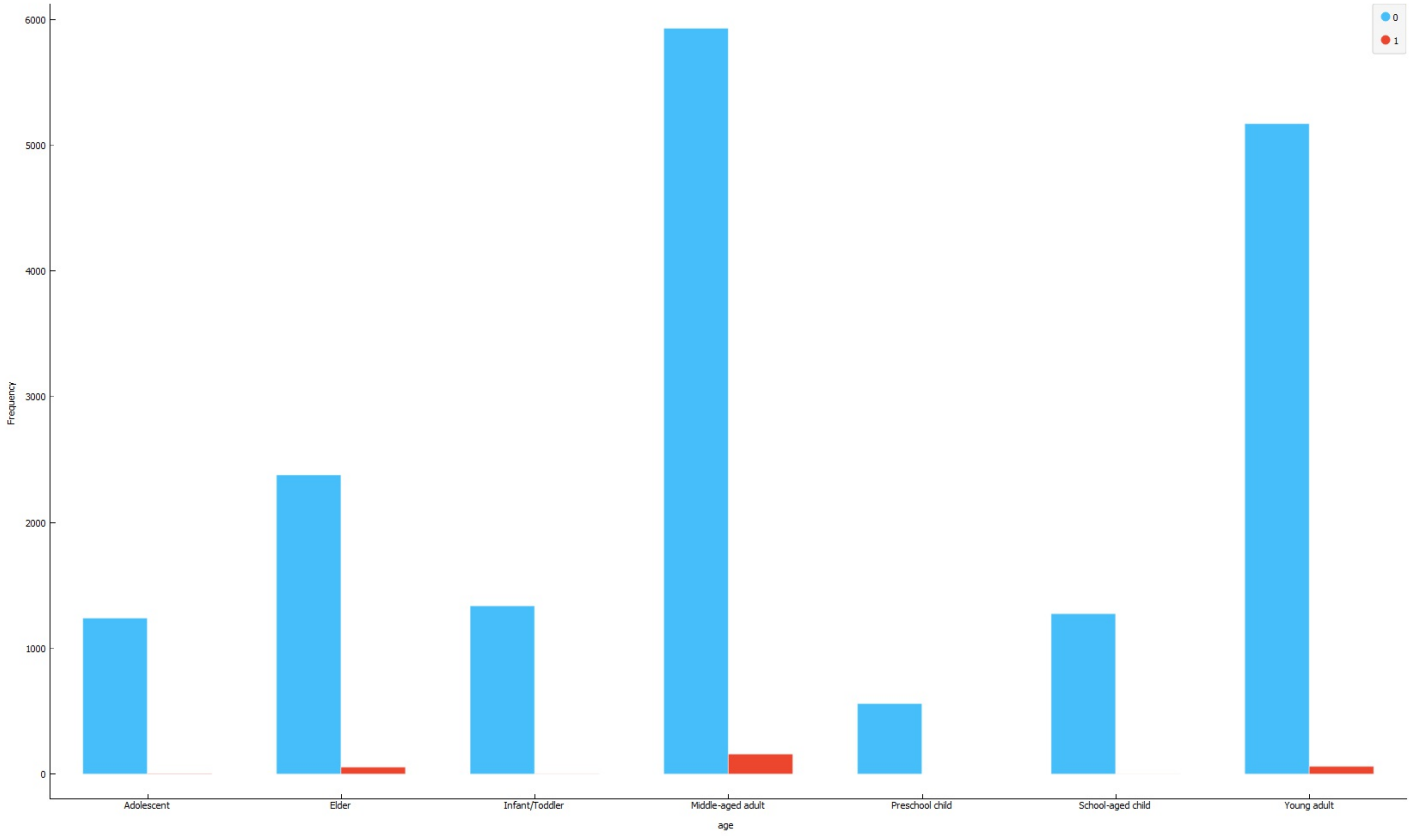
Distributions

Tue Jun 19 18, 20:45:27



Distribution of 'age' grouped by 'class'

Test & Score

Tue Jun 19 18, 20:45:42

Settings

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

Scores

Method	AUC	CA	F1	Precision	Recall
Tree	0.500	0.984	0.977	0.969	0.984
Random Forest	0.683	0.984	0.977	0.969	0.984
CN2 rule inducer	0.661	0.980	0.977	0.975	0.980
Naive Bayes	0.702	0.971	0.970	0.970	0.971

Tree Viewer

Tue Jun 19 18, 20:47:14

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

CN2 Rule Viewer

Tue Jun 19 18, 20:47:21

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, C15-C26, 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, ... (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
445	R50-R69≠0 AND D37-D48≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
528	C64-C68≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
537	age≠Elder AND D65-D69≠0	→	class=1	[0, 4]	17 : 83	-0.00	2
591	K20-K31=0 AND L55-L59≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
592	H49-H52≠0 AND E65-E68≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
650	age=Young adult AND K00-K14≠0 AND K40-K46≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
690	K20-K31=0 AND M15-M19≠0 AND J20-J22≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
728	N20-N23=0 AND age=Middle-aged adult AND B15-B19≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
744	N20-N23=0 AND age=Middle-aged adult AND L20-L30≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
751	K20-K31=0 AND K50-K52≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
756	J40-J47=0 AND S20-S29≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
820	H80-H83≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
844	R10-R19=0 AND Z00-Z13≠0 AND K55-K64≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
868	J40-J47=0 AND H60-H62≠0 AND J09-J18≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
915	R10-R19=0 AND Z00-Z13≠0 AND N20-N23=0 AND I30-I52≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
919	H49-H52=0 AND I20-I25≠0 AND G50-G59≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
921	N20-N23=0 AND Z77-Z99≠0	→	class=1	[0, 4]	17 : 83	-0.00	2
923	I20-I25≠0 AND D10-D36≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
926	I20-I25≠0 AND E08-E13≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
940	R40-R46≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
946	I10-I16≠0 AND A00-A09≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
948	I10-I16≠0 AND J96-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
962	K20-K31=0 AND R50-R69≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
973	Z00-Z13≠0 AND H60-H62≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
974	Z00-Z13≠0 AND K40-K46≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1010	K00-K14≠0	→	class=1	[0, 4]	17 : 83	-0.00	1
1014	I10-I16≠0 AND F40-F48≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1019	I10-I16≠0 AND J00-J06≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1035	S00-S09≠0	→	class=1	[0, 3]	20 : 80	-0.00	1
1050	M45-M49≠0 AND I30-I52≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1055	I10-I16≠0 AND L49-L54≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1062	I20-I25≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1070	I10-I16≠0 AND H10-H11≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1074	H10-H11≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1081	I10-I16≠0 AND age=Elder	→	class=1	[0, 2]	25 : 75	-0.00	2
1090	age=Young adult AND H49-H52≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1097	H49-H52≠0 AND M70-M79≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1100	R00-R09≠0 AND N70-N77≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1115	I10-I16≠0	→	class=1	[0, 3]	20 : 80	-0.00	1
1116	M80-M85≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1124	S90-S99≠0	→	class=1	[0, 3]	20 : 80	-0.00	1
1129	H25-H28≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1137	D10-D36≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1140	E70-E88≠0 AND K20-K31≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1143	E70-E88≠0 AND age≠Middle-aged adult	→	class=1	[0, 2]	25 : 75	-0.00	2
1156	H90-H94≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1160	I30-I52≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1162	L60-L75≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1164	E08-E13≠0 AND F30-F39≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1174	J00-J06≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
1181	age=Young adult AND J30-J39≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1184	age=Young adult AND R10-R19≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1185	age=Young adult AND O80-O82=0 AND Z00-Z13≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
1187	age=Young adult AND A65-A69=0 AND E00-E07=0 AND N70-N77=0 AND V00-V09=0	→	class=1	[0, 15]	6 : 94	-0.00	5
1189	E08-E13≠0 AND age≠Elder	→	class=1	[0, 2]	25 : 75	-0.00	2
1196	M15-M19≠0 AND G50-G59=0	→	class=1	[0, 2]	25 : 75	-0.00	2
1199	R10-R19≠0 AND age≠Middle-aged adult	→	class=1	[0, 2]	25 : 75	-0.00	2
1201	age=Middle-aged adult AND M50-M54≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
1204	age=Middle-aged adult AND N40-N53=0 AND G50-G59=0 AND H30-H36=0 AND H49-H52=0	→	class=1	[1, 20]	9 : 91	-0.276	5
1206	age=Elder AND K20-K31=0 AND M40-M43=0 AND M60-M63=0	→	class=1	[0, 5]	14 : 86	-0.00	4
1210	H49-H52=0	→	class=1	[1, 2]	40 : 60	-0.918	1
1211	TRUE	→	class=1	[1, 1]	50 : 50	-1.000	
	A15-A19≠0	→	class=0	[14, 0]	94 : 6	-0.00	1
1	A20-A28≠0	→	class=0	[9, 0]	91 : 9	-0.00	1
2	A30-A49≠0	→	class=0	[37, 0]	97 : 3	-0.00	1
3	A50-A64≠0	→	class=0	[42, 0]	98 : 2	-0.00	1
4	A70-A74≠0	→	class=0	[2, 0]	75 : 25	-0.00	1
5	B85-B89≠0	→	class=0	[61, 0]	98 : 2	-0.00	1
6	B95-B97≠0	→	class=0	[50, 0]	98 : 2	-0.00	1
7	C00-C14≠0	→	class=0	[18, 0]	95 : 5	-0.00	1
8	C30-C39≠0	→	class=0	[51, 0]	98 : 2	-0.00	1
9	C40-C41≠0	→	class=0	[4, 0]	83 : 17	-0.00	1
10	C43-C44≠0	→	class=0	[73, 0]	99 : 1	-0.00	1
11	C45-C49≠0	→	class=0	[9, 0]	91 : 9	-0.00	1
12	C50-C50≠0	→	class=0	[71, 0]	99 : 1	-0.00	1
13	C69-C72≠0	→	class=0	[11, 0]	92 : 8	-0.00	1
14	C73-C75≠0	→	class=0	[7, 0]	89 : 11	-0.00	1

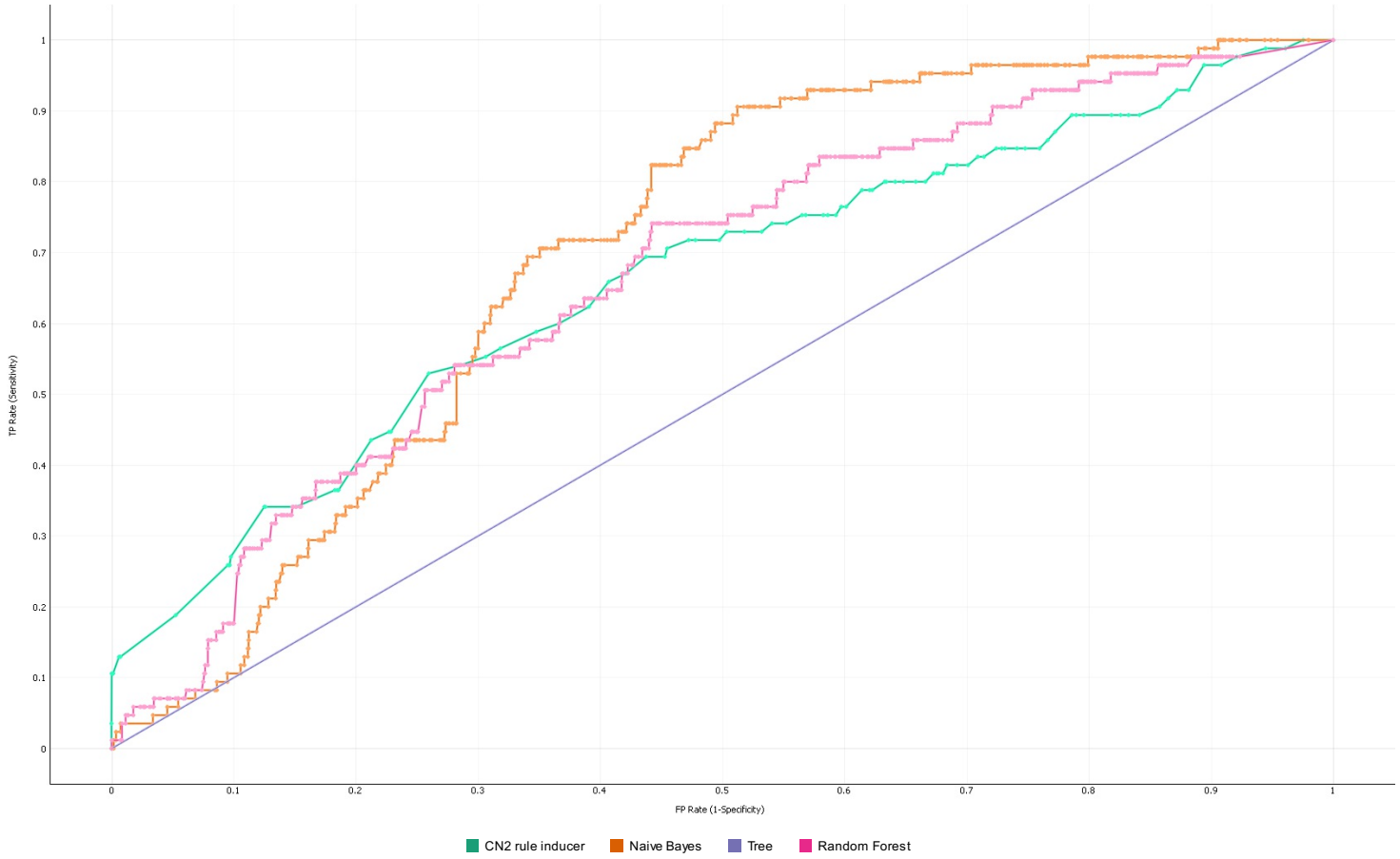
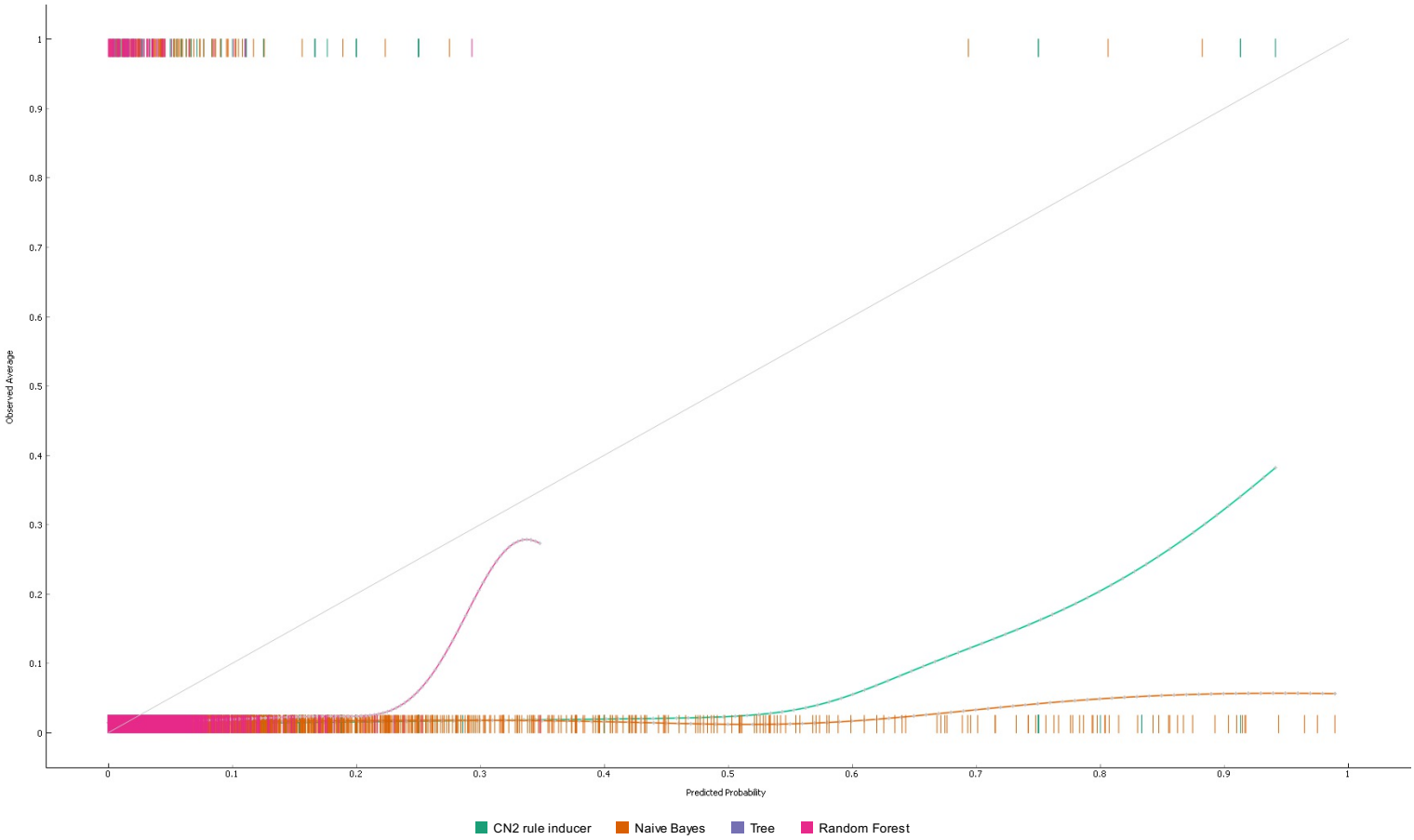
15	C76-C80≠0	→	class=0	[18, 0]	95 : 5	-0.00	1
16	D00-D09≠0	→	class=0	[10, 0]	92 : 8	-0.00	1
17	D55-D59≠0	→	class=0	[8, 0]	90 : 10	-0.00	1
18	D80-D89≠0	→	class=0	[6, 0]	88 : 12	-0.00	1
19	E40-E46≠0	→	class=0	[6, 0]	88 : 12	-0.00	1
20	E50-E64≠0	→	class=0	[44, 0]	98 : 2	-0.00	1
21	E89-E89≠0	→	class=0	[7, 0]	89 : 11	-0.00	1
22	F01-F09≠0	→	class=0	[224, 0]	100 : 0	-0.00	1
23	F20-F29≠0	→	class=0	[107, 0]	99 : 1	-0.00	1
24	F50-F59≠0	→	class=0	[15, 0]	94 : 6	-0.00	1
25	F60-F69≠0	→	class=0	[7, 0]	89 : 11	-0.00	1
26	F70-F79≠0	→	class=0	[25, 0]	96 : 4	-0.00	1
27	F80-F89≠0	→	class=0	[64, 0]	98 : 2	-0.00	1
28	F90-F98≠0	→	class=0	[41, 0]	98 : 2	-0.00	1
29	G10-G14≠0	→	class=0	[2, 0]	75 : 25	-0.00	1
30	G20-G26≠0	→	class=0	[65, 0]	99 : 1	-0.00	1
31	G30-G32≠0	→	class=0	[15, 0]	94 : 6	-0.00	1
32	G35-G37≠0	→	class=0	[15, 0]	94 : 6	-0.00	1
33	G70-G73≠0	→	class=0	[6, 0]	88 : 12	-0.00	1
34	G89-G99≠0	→	class=0	[19, 0]	95 : 5	-0.00	1
35	H00-H05≠0	→	class=0	[228, 0]	100 : 0	-0.00	1
36	H46-H47≠0	→	class=0	[14, 0]	94 : 6	-0.00	1
37	H55-H57≠0	→	class=0	[10, 0]	92 : 8	-0.00	1

+ 1112 more

ROC Analysis

Tue Jun 19 18, 20:47:29

Target class: 1



Target class: 1