

Distribution of 'age' grouped by 'class'

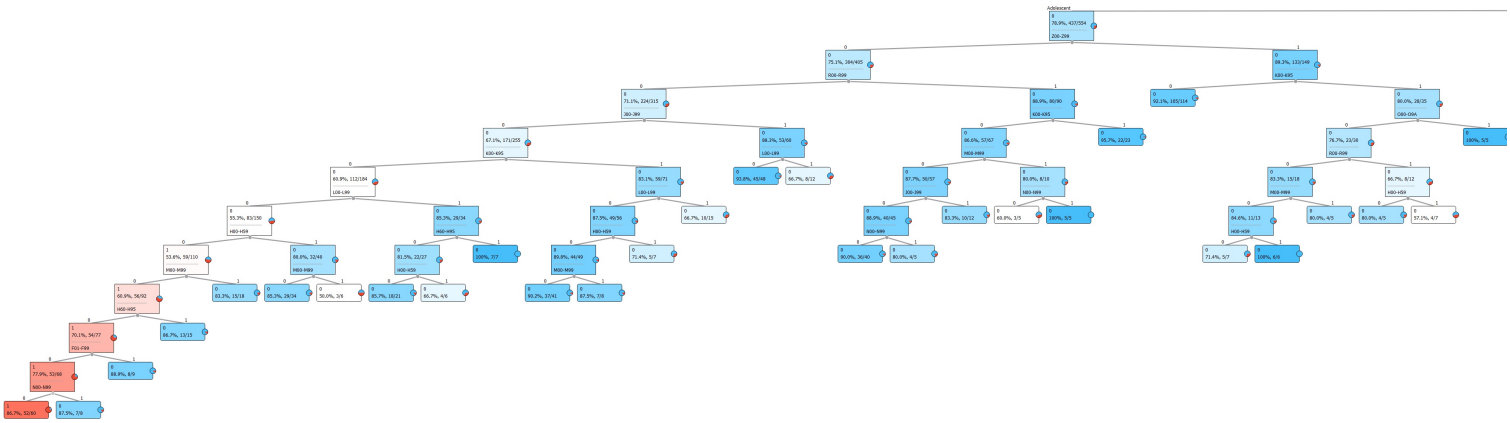
Settings

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

Scores

Method	AUC	CA	F1	Precision	Recall
Random Forest	0.638	0.892	0.863	0.891	0.892
Tree	0.648	0.888	0.859	0.879	0.888
CN2 rule inducer	0.654	0.871	0.849	0.846	0.871
Naive Bayes	0.665	0.864	0.807	0.809	0.864

Tree size: 544 nodes, 275 leaves  
Edge widths: Fixed  
Target class: None



**Data domain**

Features: C00-D49, D50-D89, E00-E89, F01-F99, G00-G99, H00-H59, H60-H95, I00-I99, J00-J99, K00-K95, L00-L99, M00-M99, N00-N99, O00-O9A, P00-P96, Q00-Q99, R00-R99, S00-T88, V00-Y99, Z00-Z99, age (total: 21 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**

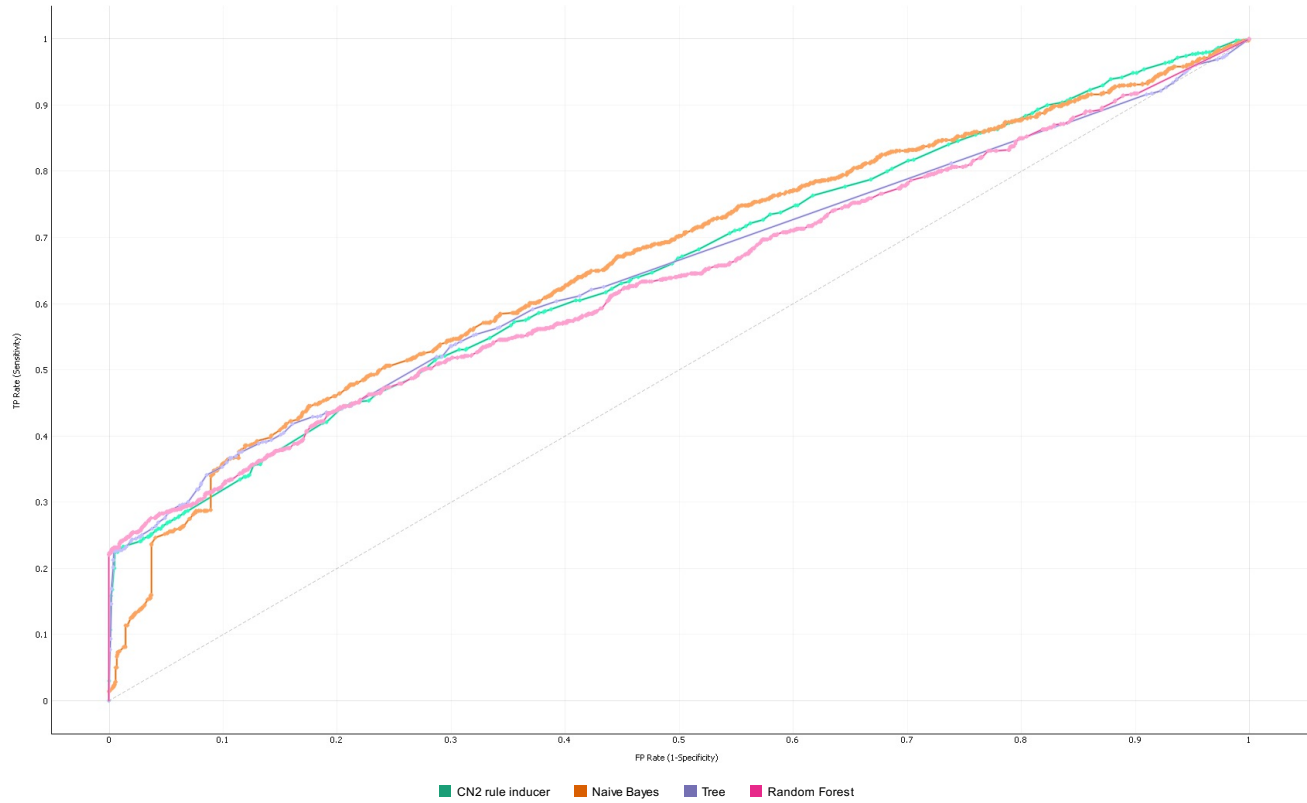
	IF conditions	THEN class	Distribution	Probabilities [%]	Quality	Length
56	S00-T88#0 AND age=Middle-aged adult AND H00-H59#0 AND V00-Y99#0	→ class=1	[0, 2]	25 : 75	-0.00	4
66	S00-T88#0 AND age=Middle-aged adult AND V00-Y99#0	→ class=1	[0, 4]	17 : 83	-0.00	3
83	S00-T88#0 AND R00-R99#0 AND I00-I99#0 AND O00-O9A#0	→ class=1	[0, 2]	25 : 75	-0.00	4
117	O00-O9A#0 AND H60-H95#0 AND S00-T88#0	→ class=1	[0, 2]	25 : 75	-0.00	3
136	I00-I99#0 AND H00-H59#0 AND V00-Y99#0	→ class=1	[0, 3]	20 : 80	-0.00	3
253	K00-K95#0 AND age=Young adult AND S00-T88#0 AND L00-L99#0 AND O00-O9A#0	→ class=1	[0, 2]	25 : 75	-0.00	5
258	I00-I99#0 AND L00-L99#0 AND M00-M99#0 AND age=Elder AND D50-D89#0	→ class=1	[0, 2]	25 : 75	-0.00	5
291	K00-K95#0 AND L00-L99#0 AND M00-M99#0 AND H00-H59#0 AND D50-D89#0	→ class=1	[0, 2]	25 : 75	-0.00	5
310	age=Middle-aged adult AND S00-T88#0 AND N00-N99#0 AND D50-D89#0	→ class=1	[0, 2]	25 : 75	-0.00	4
332	H00-H59#0 AND M00-M99#0 AND age=Middle-aged adult AND C00-D49#0	→ class=1	[0, 2]	25 : 75	-0.00	4
382	I00-I99#0 AND age=Adolescent	→ class=1	[0, 2]	25 : 75	-0.00	2
385	R00-R99#0 AND age=Adolescent AND H00-H59#0 AND E00-E89#0	→ class=1	[0, 2]	25 : 75	-0.00	4
394	C00-D49#0 AND Q00-Q99#0	→ class=1	[0, 2]	25 : 75	-0.00	2
395	C00-D49#0 AND V00-Y99#0	→ class=1	[0, 2]	25 : 75	-0.00	2
398	C00-D49#0 AND L00-L99#0 AND G00-G99#0	→ class=1	[0, 2]	25 : 75	-0.00	3
419	age=Elder AND I00-I99#0 AND S00-T88#0 AND E00-E89#0	→ class=1	[0, 2]	25 : 75	-0.00	4
427	I00-I99#0 AND D50-D89#0	→ class=1	[0, 3]	20 : 80	-0.00	2
431	K00-K95#0 AND age=School-aged child AND L00-L99#0 AND N00-N99#0	→ class=1	[0, 2]	25 : 75	-0.00	4
436	K00-K95#0 AND age=School-aged child AND M00-M99#0	→ class=1	[0, 2]	25 : 75	-0.00	3
441	H60-H95#0 AND age=Young adult AND D50-D89#0	→ class=1	[0, 2]	25 : 75	-0.00	3
455	H00-H59#0 AND age=Young adult AND I00-I99#0	→ class=1	[0, 2]	25 : 75	-0.00	3
460	H00-H59#0 AND age=Young adult AND J00-J99#0 AND K00-K95#0	→ class=1	[0, 2]	25 : 75	-0.00	4
463	K00-K95#0 AND age=Young adult AND H00-H59#0	→ class=1	[0, 3]	20 : 80	-0.00	3
496	C00-D49#0 AND L00-L99#0 AND S00-T88#0	→ class=1	[0, 2]	25 : 75	-0.00	3
502	S00-T88#0 AND age=Middle-aged adult AND C00-D49#0	→ class=1	[0, 3]	20 : 80	-0.00	3
503	S00-T88#0 AND age=Middle-aged adult AND H60-H95#0 AND H00-H59#0	→ class=1	[0, 3]	20 : 80	-0.00	4
505	S00-T88#0 AND age=Middle-aged adult AND F01-F99#0 AND I00-I99#0	→ class=1	[0, 2]	25 : 75	-0.00	4
542	H60-H95#0 AND V00-Y99#0	→ class=1	[0, 2]	25 : 75	-0.00	2
560	E00-E89#0 AND J00-J99#0 AND D50-D89#0	→ class=1	[0, 2]	25 : 75	-0.00	3
564	F01-F99#0 AND J00-J99#0 AND G00-G99#0	→ class=1	[0, 2]	25 : 75	-0.00	3
581	Z00-Z99#0 AND age=Adolescent AND H60-H95#0	→ class=1	[0, 3]	20 : 80	-0.00	3
588	age=Elder AND S00-T88#0 AND C00-D49#0	→ class=1	[0, 2]	25 : 75	-0.00	3
597	Z00-Z99#0 AND R00-R99#0 AND V00-Y99#0	→ class=1	[0, 2]	25 : 75	-0.00	3
599	R00-R99#0 AND V00-Y99#0	→ class=1	[0, 2]	25 : 75	-0.00	2
608	K00-K95#0 AND D50-D89#0 AND C00-D49#0	→ class=1	[0, 2]	25 : 75	-0.00	3
610	K00-K95#0 AND age=Young adult AND J00-J99#0	→ class=1	[0, 2]	25 : 75	-0.00	3

626	M00-M99#0 AND age=Young adult AND H00-H59#0	→	class=1	[0, 2]	25 : 75	-0.00	3
629	L00-L99#0 AND P00-P96#0	→	class=1	[0, 2]	25 : 75	-0.00	2
631	L00-L99#0 AND age=Adolescent AND C00-D49#0	→	class=1	[0, 2]	25 : 75	-0.00	3
638	L00-L99#0 AND age=Infant/Toddler AND H00-H59#0	→	class=1	[0, 2]	25 : 75	-0.00	3
645	H00-H59#0 AND Q00-Q99#0 AND R00-R99#0	→	class=1	[0, 4]	17 : 83	-0.00	3
656	L00-L99#0 AND D50-D89#0 AND H60-H95#0	→	class=1	[0, 2]	25 : 75	-0.00	3
659	J00-J99#0 AND P00-P96#0 AND Q00-Q99#0	→	class=1	[0, 3]	20 : 80	-0.00	3
661	V00-Y99#0	→	class=1	[0, 3]	20 : 80	-0.00	1
667	L00-L99#0 AND age=Young adult AND N00-N99=0 AND C00-D49#0 AND H00-H59#0	→	class=1	[0, 4]	17 : 83	-0.00	5
670	L00-L99#0 AND age=Young adult AND N00-N99=0 AND F01-F99#0	→	class=1	[0, 2]	25 : 75	-0.00	4
679	Z00-Z99#0 AND age=Middle-aged adult AND H00-H59=0 AND L00-L99#0	→	class=1	[0, 4]	17 : 83	-0.00	4
692	age=Elder AND H60-H95#0 AND N00-N99=0 AND R00-R99#0	→	class=1	[0, 3]	20 : 80	-0.00	4
704	H00-H59#0 AND age=School-aged child AND F01-F99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
707	H00-H59#0 AND age=School-aged child AND Z00-Z99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
711	R00-R99#0 AND age=Preschool child AND G00-G99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
714	R00-R99#0 AND age=Preschool child AND M00-M99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
717	H60-H95#0 AND C00-D49#0 AND H00-H59=0 AND E00-E89#0	→	class=1	[0, 3]	20 : 80	-0.00	4
719	age=Elder AND H60-H95#0 AND H00-H59=0 AND F01-F99#0	→	class=1	[0, 2]	25 : 75	-0.00	4
723	G00-G99#0 AND Z00-Z99#0 AND S00-T88#0	→	class=1	[0, 2]	25 : 75	-0.00	3
726	Z00-Z99#0 AND D50-D89#0 AND Q00-Q99#0	→	class=1	[0, 3]	20 : 80	-0.00	3
730	R00-R99#0 AND J00-J99=0 AND C00-D49#0	→	class=1	[0, 2]	25 : 75	-0.00	3
732	R00-R99#0 AND J00-J99=0 AND age=School-aged child AND I00-I99#0	→	class=1	[0, 2]	25 : 75	-0.00	4
735	R00-R99#0 AND age=Adolescent AND H60-H95#0	→	class=1	[0, 2]	25 : 75	-0.00	3
742	N00-N99#0 AND J00-J99=0 AND F01-F99#0 AND L00-L99=0	→	class=1	[0, 5]	14 : 86	-0.00	4
747	R00-R99#0 AND J00-J99=0 AND G00-G99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
751	K00-K95#0 AND Q00-Q99#0 AND L00-L99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
754	Z00-Z99#0 AND age=Young adult AND M00-M99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
756	Z00-Z99#0 AND age=Young adult AND F01-F99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
762	Z00-Z99#0 AND C00-D49#0 AND H00-H59#0	→	class=1	[0, 2]	25 : 75	-0.00	3
763	J00-J99#0 AND N00-N99=0 AND age=Elder AND L00-L99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
768	age=Young adult AND N00-N99=0 AND J00-J99=0 AND E00-E89=0 AND D50-D89=0	→	class=1	[5, 147]	4 : 96	-0.209	5
769	age=Young adult AND S00-T88#0 AND I00-I99#0 AND H60-H95#0	→	class=1	[0, 3]	20 : 80	-0.00	4
774	F01-F99#0 AND I00-I99=0 AND H00-H59#0	→	class=1	[0, 3]	20 : 80	-0.00	3
781	R00-R99#0 AND C00-D49#0 AND N00-N99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
787	H00-H59#0 AND age=Adolescent AND Z00-Z99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
791	Z00-Z99#0 AND age=Young adult AND S00-T88#0 AND I00-I99=0	→	class=1	[0, 3]	20 : 80	-0.00	4
793	Z00-Z99#0 AND M00-M99=0 AND F01-F99#0 AND H60-H95#0	→	class=1	[0, 3]	20 : 80	-0.00	4
795	Z00-Z99#0 AND age=School-aged child AND H60-H95#0	→	class=1	[0, 2]	25 : 75	-0.00	3
796	Z00-Z99#0 AND age=School-aged child AND J00-J99=0	→	class=1	[0, 2]	25 : 75	-0.00	3
805	S00-T88#0 AND E00-E89#0 AND H60-H95#0	→	class=1	[0, 2]	25 : 75	-0.00	3
806	S00-T88#0 AND G00-G99#0 AND H00-H59#0	→	class=1	[0, 2]	25 : 75	-0.00	3
807	S00-T88#0 AND age=Preschool child AND H00-H59#0	→	class=1	[0, 4]	17 : 83	-0.00	3
809	S00-T88#0 AND age=Preschool child AND H60-H95#0 AND R00-R99#0	→	class=1	[0, 3]	20 : 80	-0.00	4
813	Z00-Z99#0 AND age=Preschool child AND H60-H95#0	→	class=1	[0, 3]	20 : 80	-0.00	3
817	J00-J99#0 AND D50-D89#0 AND L00-L99=0	→	class=1	[0, 3]	20 : 80	-0.00	3
819	J00-J99#0 AND C00-D49#0 AND age#Preschool child AND K00-K95=0	→	class=1	[0, 3]	20 : 80	-0.00	4
830	age=Middle-aged adult AND H60-H95=0 AND L00-L99=0 AND J00-J99=0 AND G00-G99=0	→	class=1	[5, 97]	6 : 94	-0.282	5
831	R00-R99#0 AND J00-J99=0 AND F01-F99#0 AND I00-I99#0	→	class=1	[0, 2]	25 : 75	-0.00	4
833	I00-I99#0 AND C00-D49#0 AND M00-M99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
837	age=Middle-aged adult AND J00-J99=0 AND N00-N99#0	→	class=1	[0, 2]	25 : 75	-0.00	3
839	J00-J99#0 AND age=Preschool child AND E00-E89#0	→	class=1	[0, 2]	25 : 75	-0.00	3
841	age=Middle-aged adult AND J00-J99=0 AND E00-E89#0 AND H00-H59#0	→	class=1	[0, 2]	25 : 75	-0.00	4
843	L00-L99#0 AND age=Infant/Toddler AND H60-H95#0	→	class=1	[0, 3]	20 : 80	-0.00	3
844	L00-L99#0 AND age=Adolescent AND M00-M99#0 AND K00-K95#0	→	class=1	[0, 2]	25 : 75	-0.00	4
848	G00-G99#0 AND age=Elder AND F01-F99#0	→	class=1	[0, 3]	20 : 80	-0.00	3
849	I00-I99#0 AND S00-T88#0 AND N00-N99=0	→	class=1	[0, 3]	20 : 80	-0.00	3
851	H60-H95#0 AND age=Adolescent AND M00-M99#0	→	class=1	[0, 4]	17 : 83	-0.00	3
853	J00-J99#0 AND age=School-aged child AND M00-M99#0 AND L00-L99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
855	R00-R99#0 AND J00-J99=0 AND L00-L99#0 AND E00-E89#0	→	class=1	[0, 2]	25 : 75	-0.00	4
859	age=School-aged child AND R00-R99=0 AND L00-L99=0 AND Q00-Q99=0 AND F01-F99#0	→	class=1	[1, 57]	3 : 97	-0.126	5
866	age=Adolescent AND H00-H59#0 AND N00-N99=0 AND L00-L99=0 AND K00-K95#0	→	class=1	[4, 53]	8 : 92	-0.367	5
867	O00-O9A#0	→	class=1	[1, 2]	40 : 60	-0.918	1
871	age=Young adult AND J00-J99=0 AND S00-T88#0 AND E00-E89#0	→	class=1	[0, 2]	25 : 75	-0.00	4
874	age=Elder AND L00-L99#0 AND N00-N99=0 AND K00-K95#0	→	class=1	[0, 2]	25 : 75	-0.00	4

+ 902 more



Target class: 1



Calibration Plot

Target class: 1

