Distribution of 'age' grouped by 'class'

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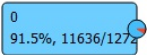
Sampling type: No sampling, test on testing data
Target class: Average over classes

Scores

Method	AUC	CA	F1	Precision	Recall
Random Forest	0.700	0.928	0.905	0.923	0.928
CN2 rule inducer	0.722	0.918	0.901	0.898	0.918
Tree	0.500	0.915	0.874	0.837	0.915
Naive Bayes	0.721	0.912	0.874	0.851	0.912

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

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0
91.5%, 11636/1272
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Data domain

Features: A00-B99, C00-D49, D50-D89, E00-E89, F01-F99, 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

Induced rules

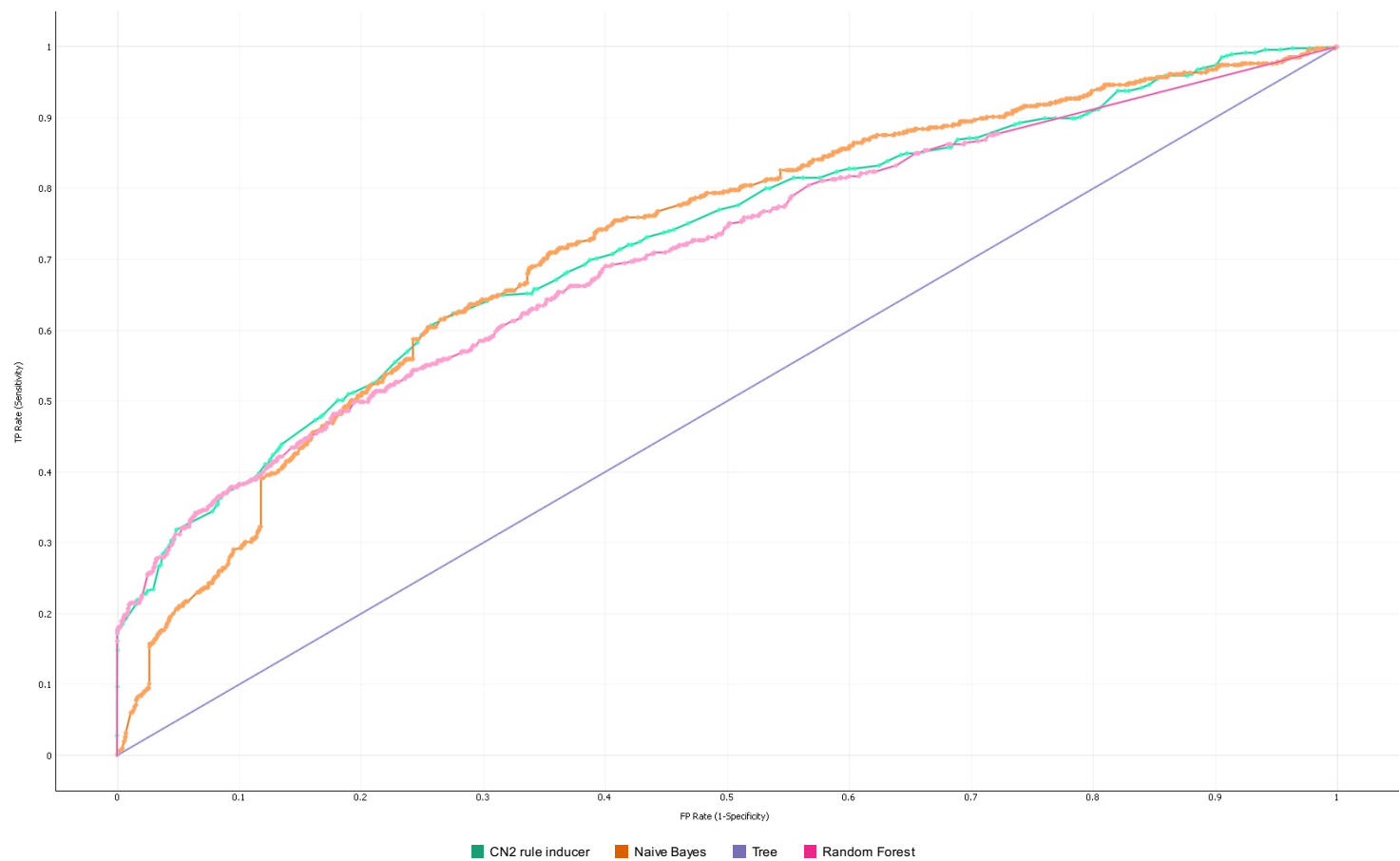|	IF conditions		THEN class	Distribution	Probabilities [%]	Quality	Length
81	age=Infant/Toddler AND J00-J99≠0 AND Q00-Q99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
105	age=School-aged child AND S00-T88≠0 AND R00-R99=0 AND Q00-Q99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
168	K00-K95≠0 AND age=School-aged child AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
260	age=Middle-aged adult AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
272	C00-D49≠0 AND Q00-Q99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
288	age=Middle-aged adult AND S00-T88≠0 AND R00-R99=0 AND V00-Y99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
327	C00-D49≠0 AND V00-Y99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
351	N00-N99≠0 AND age=Middle-aged adult AND C00-D49≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
370	Z00-Z99≠0 AND age=Middle-aged adult AND E00-E89=0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
380	M00-M99≠0 AND P00-P96≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
384	Z00-Z99≠0 AND R00-R99=0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
416	age=Middle-aged adult AND Z00-Z99≠0 AND N00-N99=0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
437	N00-N99≠0 AND age=Adolescent	→	class=1	[0, 2]	25 : 75	-0.00	2
441	J00-J99≠0 AND S00-T88=0 AND V00-Y99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
443	J00-J99≠0 AND Q00-Q99≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
447	L00-L99≠0 AND age=Young adult AND H60-H95≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
453	V00-Y99≠0 AND A00-B99≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
468	H00-H59≠0 AND M00-M99=0 AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
473	J00-J99≠0 AND S00-T88=0 AND C00-D49≠0 AND L00-L99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
496	L00-L99≠0 AND age=Preschool child	→	class=1	[0, 3]	20 : 80	-0.00	2
517	J00-J99≠0 AND S00-T88=0 AND E00-E89=0 AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
523	M00-M99≠0 AND R00-R99=0 AND age=Young adult AND E00-E89=0	→	class=1	[0, 3]	20 : 80	-0.00	4
524	Z00-Z99≠0 AND D50-D89≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
531	age=Middle-aged adult AND C00-D49≠0 AND L00-L99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
534	age=Middle-aged adult AND C00-D49≠0 AND H00-H59=0 AND K00-K95≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
535	C00-D49≠0 AND N00-N99=0 AND I00-I99=0 AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
546	age=Middle-aged adult AND C00-D49≠0 AND R00-R99=0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
550	M00-M99≠0 AND R00-R99=0 AND age=Young adult AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
554	M00-M99≠0 AND H00-H59=0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
571	H00-H59≠0 AND Q00-Q99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
574	H00-H59≠0 AND M00-M99=0 AND age=Elder AND Z00-Z99≠0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
583	I00-I99≠0 AND R00-R99=0 AND age=Middle-aged adult AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
586	I00-I99≠0 AND R00-R99=0 AND age≠Elder AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
594	E00-E89≠0 AND age=Young adult AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
595	E00-E89≠0 AND age=Young adult AND Z00-Z99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
599	E00-E89≠0 AND age=Young adult AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
608	E00-E89≠0 AND F01-F99=0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
618	R00-R99≠0 AND age=Adolescent AND M00-M99=0 AND H00-H59≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
624	K00-K95≠0 AND F01-F99=0 AND L00-L99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
631	H00-H59≠0 AND R00-R99=0 AND H60-H95≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
634	H00-H59≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
638	H00-H59≠0 AND R00-R99=0 AND C00-D49≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
653	R00-R99≠0 AND age=Middle-aged adult AND C00-D49≠0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	4
654	R00-R99≠0 AND age=Middle-aged adult AND M00-M99=0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
663	R00-R99≠0 AND age=Middle-aged adult AND J00-J99=0 AND L00-L99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
667	H60-H95≠0 AND C00-D49≠0 AND I00-I99=0	→	class=1	[0, 2]	25 : 75	-0.00	3
669	H60-H95≠0 AND S00-T88=0 AND age=Elder AND I00-I99=0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	5
678	I00-I99≠0 AND age=Young adult	→	class=1	[0, 2]	25 : 75	-0.00	2
679	K00-K95≠0 AND C00-D49≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
682	H60-H95≠0 AND I00-I99=0 AND A00-B99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
683	A00-B99≠0 AND I00-I99=0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	3
685	age=Young adult AND F01-F99=0 AND Z00-Z99=0	→	class=1	[0, 2]	25 : 75	-0.00	3
688	H60-H95≠0 AND I00-I99=0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
690	M00-M99≠0 AND C00-D49≠0 AND F01-F99≠0	→	class=1	[0, 4]	17 : 83	-0.00	3
693	age=Young adult AND F01-F99=0 AND H60-H95=0 AND J00-J99=0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	5
696	age=Young adult AND F01-F99=0 AND H60-H95=0 AND H00-H59=0 AND Q00-Q99=0	→	class=1	[0, 70]	1 : 99	-0.00	5
701	S00-T88≠0 AND A00-B99≠0 AND E00-E89=0	→	class=1	[0, 4]	17 : 83	-0.00	3
702	S00-T88≠0 AND A00-B99≠0 AND H00-H59=0	→	class=1	[0, 4]	17 : 83	-0.00	3
705	I00-I99≠0 AND A00-B99≠0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	3
706	A00-B99≠0 AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
709	I00-I99≠0 AND A00-B99≠0 AND F01-F99=0	→	class=1	[0, 3]	20 : 80	-0.00	3
714	R00-R99≠0 AND M00-M99=0 AND age=Adolescent	→	class=1	[0, 2]	25 : 75	-0.00	3
721	C00-D49≠0 AND Z00-Z99≠0 AND E00-E89=0	→	class=1	[0, 3]	20 : 80	-0.00	3
723	I00-I99≠0 AND A00-B99≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
724	F01-F99≠0 AND age=Middle-aged adult AND I00-I99=0 AND E00-E89=0	→	class=1	[0, 3]	20 : 80	-0.00	4
728	E00-E89≠0 AND I00-I99=0 AND L00-L99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
735	I00-I99≠0 AND M00-M99=0 AND Z00-Z99=0 AND age≠Elder	→	class=1	[0, 2]	25 : 75	-0.00	4
738	V00-Y99≠0	→	class=1	[0, 2]	25 : 75	-0.00	1
740	R00-R99≠0 AND M00-M99=0 AND L00-L99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
744	age=Adolescent AND H00-H59=0 AND S00-T88=0 AND M00-M99=0	→	class=1	[0, 14]	6 : 94	-0.00	4
747	H60-H95≠0 AND I00-I99=0 AND K00-K95=0 AND F01-F99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
755	C00-D49≠0 AND M00-M99=0	→	class=1	[0, 3]	20 : 80	-0.00	2
759	age=Middle-aged adult AND R00-R99=0 AND K00-K95=0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
760	age=Middle-aged adult AND M00-M99=0 AND F01-F99=0 AND H00-H59=0 AND C00-D49=0	→	class=1	[1, 77]	2 : 98	-0.099	5
763	I00-I99≠0 AND N00-N99=0 AND S00-T88=0 AND J00-J99=0 AND H60-H95=0	→	class=1	[0, 2]	25 : 75	-0.00	5
765	age=Infant/Toddler AND H60-H95=0 AND H00-H59=0 AND J00-J99=0	→	class=1	[0, 4]	17 : 83	-0.00	4
767	age=Preschool child AND Z00-Z99=0 AND N00-N99=0	→	class=1	[0, 5]	14 : 86	-0.00	3
769	I00-I99≠0 AND R00-R99=0 AND E00-E89=0 AND H60-H95=0 AND L00-L99=0	→	class=1	[0, 2]	25 : 75	-0.00	5

771	I00-I99≠0 AND R00-R99=0 AND L00-L99≠0 AND E00-E89=0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	5
775	I00-I99≠0 AND L00-L99≠0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	3
777	I00-I99≠0 AND Z00-Z99≠0 AND H60-H95=0	→	class=1	[0, 3]	20 : 80	-0.00	3
780	M00-M99≠0 AND A00-B99=0	→	class=1	[0, 3]	20 : 80	-0.00	2
783	Z00-Z99≠0 AND E00-E89=0 AND age=Elder AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
785	Z00-Z99≠0 AND K00-K95=0 AND J00-J99≠0 AND A00-B99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
789	I00-I99≠0 AND R00-R99=0 AND L00-L99≠0	→	class=1	[1, 2]	40 : 60	-0.918	3
792	R00-R99≠0 AND I00-I99=0 AND H60-H95≠0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	4
798	H60-H95≠0 AND age=Adolescent	→	class=1	[0, 2]	25 : 75	-0.00	2
799	I00-I99≠0 AND H00-H59=0 AND C00-D49≠0 AND N00-N99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
802	F01-F99≠0 AND Z00-Z99≠0 AND I00-I99=0	→	class=1	[0, 2]	25 : 75	-0.00	3
804	M00-M99≠0 AND age=Elder AND L00-L99≠0 AND H60-H95=0	→	class=1	[0, 3]	20 : 80	-0.00	4
807	age=School-aged child AND J00-J99=0 AND F01-F99=0	→	class=1	[0, 6]	12 : 88	-0.00	3
809	M00-M99≠0 AND age=Elder AND N00-N99=0 AND F01-F99=0	→	class=1	[0, 3]	20 : 80	-0.00	4
811	E00-E89=0 AND Z00-Z99≠0 AND F01-F99=0 AND H00-H59=0	→	class=1	[1, 3]	33 : 67	-0.811	4
815	F01-F99=0 AND R00-R99=0 AND age=Middle-aged adult AND H60-H95=0	→	class=1	[0, 2]	25 : 75	-0.00	4
818	F01-F99=0 AND R00-R99=0 AND N00-N99=0 AND M00-M99=0 AND S00-T88=0	→	class=1	[2, 52]	5 : 95	-0.229	5
823	age=Elder AND H60-H95≠0 AND S00-T88≠0 AND F01-F99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
825	M00-M99=0 AND S00-T88≠0 AND E00-E89=0 AND K00-K95=0	→	class=1	[0, 2]	25 : 75	-0.00	4
829	age=Elder AND J00-J99≠0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	3
830	age=Elder AND A00-B99≠0	→	class=1	[1, 2]	40 : 60	-0.918	2
834	age=Elder AND E00-E89≠0 AND I00-I99=0	→	class=1	[1, 2]	40 : 60	-0.918	3

+ 774 more

Target class: 1

CN2 rule inducer   Naive Bayes   Tree   Random Forest

Target class: 1

CN2 rule inducer   Naive Bayes   Tree   Random Forest