Distributions

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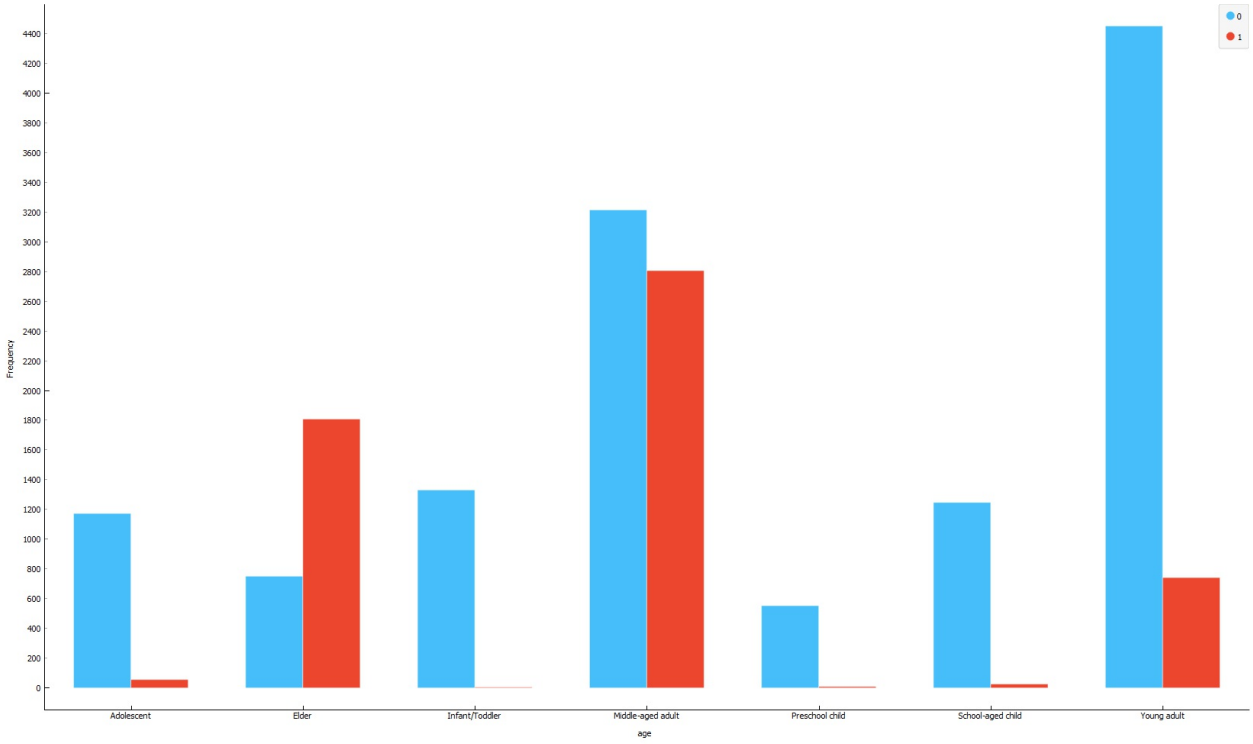

Distribution of 'age' grouped by 'class'

Test & Score

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Settings

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

Scores

Method	AUC	CA	F1	Precision	Recall
Random Forest	0.871	0.811	0.805	0.805	0.811
Naive Bayes	0.863	0.799	0.800	0.802	0.799
Tree	0.864	0.803	0.798	0.797	0.803
CN2 rule inducer	0.850	0.797	0.796	0.796	0.797

Tree Viewer

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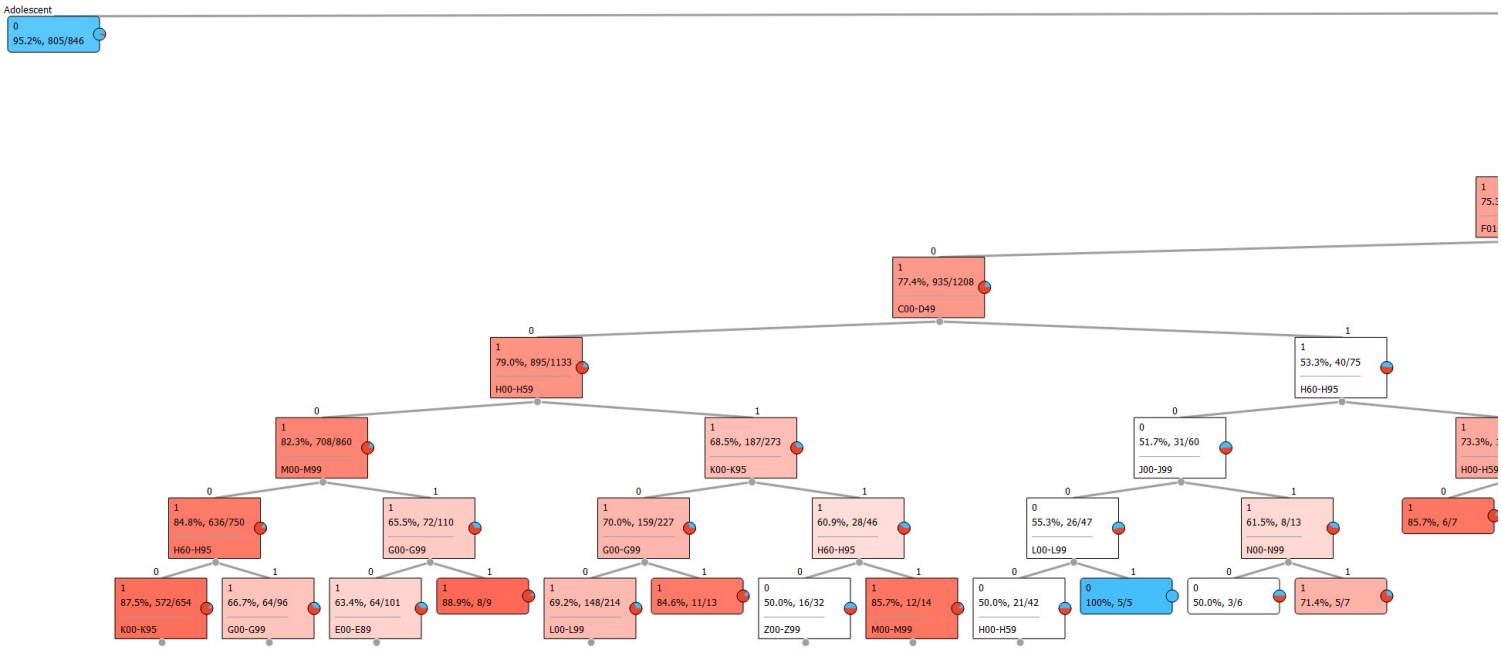
Tree size: 960 nodes, 483 leaves
Edge widths: Fixed
Target class: None



CN2 Rule Viewer

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Data domain

Features: A00-B99, C00-D49, D50-D89, E00-E89, F01-F99, G00-G99, H00-H59, H60-H95, 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
203	O00-O9A≠0 AND S00-T88≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
208	O00-O9A≠0 AND E00-E89=0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
218	age=Young adult AND S00-T88≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
234	age=Adolescent AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
248	age=Young adult AND L00-L99≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
249	age=Young adult AND L00-L99≠0 AND F01-F99≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
281	age=Young adult AND R00-R99≠0 AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
282	O00-O9A≠0 AND Z00-Z99=0	→	class=1	[0, 2]	25 : 75	-0.00	2
285	age=Young adult AND P00-P96≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
290	age=Young adult AND H00-H59≠0 AND J00-J99=0 AND K00-K95≠0 AND E00-E89≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
298	age=Young adult AND S00-T88≠0 AND Z00-Z99=0 AND N00-N99≠0 AND G00-G99≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
302	age=Young adult AND N00-N99≠0 AND S00-T88≠0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
316	age=Young adult AND L00-L99≠0 AND Z00-Z99=0 AND R00-R99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
327	age=Young adult AND H00-H59≠0 AND D50-D89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
336	age=Young adult AND F01-F99≠0 AND M00-M99=0 AND H00-H59≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
339	age=Young adult AND J00-J99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
345	age=Young adult AND J00-J99≠0 AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
346	age=Young adult AND N00-N99≠0 AND G00-G99≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
349	age=Young adult AND K00-K95≠0 AND H00-H59≠0	→	class=1	[0, 5]	14 : 86	-0.00	3
357	age=Young adult AND H00-H59≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
365	age=Young adult AND R00-R99≠0 AND L00-L99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
373	age=Young adult AND J00-J99≠0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
377	S00-T88≠0 AND V00-Y99≠0 AND G00-G99≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
380	S00-T88≠0 AND V00-Y99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
387	age=Young adult AND L00-L99≠0 AND S00-T88≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
389	age=Young adult AND L00-L99≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
391	age=Young adult AND L00-L99≠0 AND E00-E89≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
395	S00-T88≠0 AND age=Young adult AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
403	age=Adolescent AND R00-R99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
407	age=School-aged child AND E00-E89≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
408	Q00-Q99≠0 AND A00-B99≠0	→	class=1	[0, 3]	20 : 80	-0.00	2
411	Q00-Q99≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
415	age=Young adult AND A00-B99≠0 AND O00-O9A≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
420	age=Elder AND H00-H59=0 AND F01-F99=0 AND M00-M99=0 AND K00-K95=0	→	class=1	[169, 712]	19 : 81	-0.705	5
421	Q00-Q99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
448	A00-B99≠0 AND V00-Y99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2

458	age=Infant/Toddler	→	class=1	[1, 2]	40 : 60	-0.918	1
460	age=Young adult AND N00-N99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
464	age=Preschool child AND L00-L99=0 AND Z00-Z99=0	→	class=1	[0, 5]	14 : 86	-0.00	3
467	age=Preschool child	→	class=1	[1, 2]	40 : 60	-0.918	1
471	C00-D49≠0 AND age=Adolescent AND M00-M99=0	→	class=1	[0, 2]	25 : 75	-0.00	3
479	age=Elder AND D50-D89≠0 AND E00-E89≠0	→	class=1	[0, 4]	17 : 83	-0.00	3
481	age=Elder AND A00-B99≠0 AND G00-G99≠0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
482	A00-B99≠0 AND age=Elder AND E00-E89≠0 AND G00-G99=0	→	class=1	[0, 3]	20 : 80	-0.00	4
484	C00-D49≠0 AND age=Middle-aged adult AND Z00-Z99≠0 AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
487	A00-B99≠0 AND age=Elder AND G00-G99≠0 AND E00-E89=0	→	class=1	[0, 3]	20 : 80	-0.00	4
489	C00-D49≠0 AND V00-Y99≠0 AND H60-H95=0	→	class=1	[0, 3]	20 : 80	-0.00	3
494	A00-B99≠0 AND H00-H59≠0 AND K00-K95≠0 AND S00-T88≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
497	S00-T88≠0 AND A00-B99≠0 AND C00-D49≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
500	age=Elder AND V00-Y99≠0 AND G00-G99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
501	age=Elder AND E00-E89≠0 AND C00-D49≠0 AND F01-F99≠0	→	class=1	[0, 5]	14 : 86	-0.00	4
502	C00-D49≠0 AND H00-H59=0 AND D50-D89≠0 AND J00-J99=0	→	class=1	[0, 8]	10 : 90	-0.00	4
509	age=Elder AND D50-D89≠0 AND H00-H59≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
511	C00-D49≠0 AND G00-G99≠0 AND E00-E89=0	→	class=1	[0, 5]	14 : 86	-0.00	3
517	age=Elder AND A00-B99≠0 AND J00-J99≠0 AND H00-H59≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
519	S00-T88≠0 AND age=Middle-aged adult AND H00-H59≠0 AND G00-G99≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
524	age=Elder AND E00-E89≠0 AND C00-D49≠0 AND H00-H59=0	→	class=1	[0, 3]	20 : 80	-0.00	4
527	C00-D49≠0 AND H00-H59=0 AND J00-J99=0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
530	S00-T88≠0 AND C00-D49≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
534	V00-Y99≠0 AND K00-K95≠0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	3
536	age=Elder AND V00-Y99≠0 AND H00-H59≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
538	V00-Y99≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	2
541	age=Elder AND A00-B99≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
542	age=Elder AND E00-E89≠0 AND Z00-Z99≠0 AND N00-N99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
544	C00-D49≠0 AND H00-H59=0 AND L00-L99≠0 AND E00-E89=0	→	class=1	[0, 4]	17 : 83	-0.00	4
545	C00-D49≠0 AND H00-H59=0 AND R00-R99≠0 AND H60-H95≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
548	C00-D49≠0 AND S00-T88≠0 AND J00-J99=0 AND K00-K95≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
552	age=Elder AND E00-E89≠0 AND Z00-Z99≠0 AND N00-N99≠0 AND J00-J99=0	→	class=1	[0, 3]	20 : 80	-0.00	5
554	A00-B99≠0 AND G00-G99≠0 AND K00-K95=0 AND E00-E89=0	→	class=1	[0, 5]	14 : 86	-0.00	4
558	V00-Y99≠0 AND H60-H95=0	→	class=1	[0, 3]	20 : 80	-0.00	2
560	M00-M99=0 AND age=Young adult AND J00-J99=0 AND E00-E89=0 AND A00-B99=0	→	class=1	[2, 146]	2 : 98	-0.103	5
566	age=Young adult AND G00-G99≠0 AND K00-K95=0 AND M00-M99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
567	C00-D49≠0 AND L00-L99≠0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	3
569	age=Young adult AND M00-M99≠0 AND E00-E89≠0 AND J00-J99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
571	age=Young adult AND M00-M99≠0 AND K00-K95≠0 AND Z00-Z99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
574	C00-D49≠0 AND H00-H59=0 AND K00-K95=0 AND age=Elder	→	class=1	[0, 2]	25 : 75	-0.00	4
575	C00-D49≠0 AND K00-K95=0 AND S00-T88≠0 AND M00-M99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
580	age=Elder AND D50-D89≠0 AND K00-K95≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
581	M00-M99=0 AND age=Adolescent AND G00-G99=0 AND J00-J99=0 AND A00-B99=0	→	class=1	[1, 12]	13 : 87	-0.391	5
585	age=Elder AND E00-E89≠0 AND C00-D49≠0 AND R00-R99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
586	C00-D49≠0 AND F01-F99≠0 AND H00-H59=0	→	class=1	[0, 2]	25 : 75	-0.00	3
587	C00-D49≠0 AND F01-F99≠0 AND M00-M99≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
593	age=Elder AND F01-F99=0 AND G00-G99≠0 AND R00-R99=0 AND E00-E89≠0	→	class=1	[0, 4]	17 : 83	-0.00	5
594	age=Elder AND R00-R99=0 AND A00-B99≠0 AND K00-K95≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
595	age=Elder AND F01-F99=0 AND G00-G99≠0 AND R00-R99=0 AND H60-H95≠0	→	class=1	[0, 4]	17 : 83	-0.00	5
596	M00-M99=0 AND H00-H59=0 AND N00-N99=0 AND D50-D89≠0 AND H60-H95≠0	→	class=1	[0, 3]	20 : 80	-0.00	5
598	M00-M99=0 AND H00-H59=0 AND N00-N99=0 AND D50-D89≠0 AND E00-E89=0	→	class=1	[2, 8]	25 : 75	-0.722	5
599	D50-D89≠0 AND H60-H95≠0 AND E00-E89≠0	→	class=1	[0, 3]	20 : 80	-0.00	3
603	M00-M99=0 AND H00-H59=0 AND K00-K95=0 AND J00-J99=0 AND E00-E89=0	→	class=1	[352, 913]	28 : 72	-0.853	5
605	age=Middle-aged adult AND Z00-Z99≠0 AND J00-J99=0 AND L00-L99≠0 AND H60-H95≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
609	age=Elder AND Z00-Z99≠0 AND N00-N99≠0 AND A00-B99≠0	→	class=1	[0, 2]	25 : 75	-0.00	4
611	age≠Middle-aged adult AND G00-G99≠0 AND age≠Elder AND J00-J99=0	→	class=1	[0, 2]	25 : 75	-0.00	4
614	age=Elder AND R00-R99=0 AND G00-G99≠0 AND H60-H95≠0	→	class=1	[0, 3]	20 : 80	-0.00	4
615	age=Adolescent AND H00-H59≠0	→	class=1	[1, 2]	40 : 60	-0.918	2
616	age=Elder AND R00-R99=0 AND H00-H59≠0 AND C00-D49≠0 AND H60-H95≠0	→	class=1	[0, 3]	20 : 80	-0.00	5
617	age=Elder AND R00-R99=0 AND G00-G99≠0 AND J00-J99=0 AND K00-K95≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
618	age=Elder AND R00-R99=0 AND H00-H59≠0 AND A00-B99≠0 AND M00-M99≠0	→	class=1	[0, 2]	25 : 75	-0.00	5
619	A00-B99≠0 AND G00-G99≠0 AND F01-F99≠0	→	class=1	[0, 2]	25 : 75	-0.00	3
621	A00-B99≠0 AND H60-H95≠0 AND F01-F99≠0 AND E00-E89=0	→	class=1	[0, 4]	17 : 83	-0.00	4
625	age=Middle-aged adult AND H60-H95≠0 AND A00-B99≠0 AND E00-E89=0	→	class=1	[0, 2]	25 : 75	-0.00	4

+ 971 more

ROC Analysis

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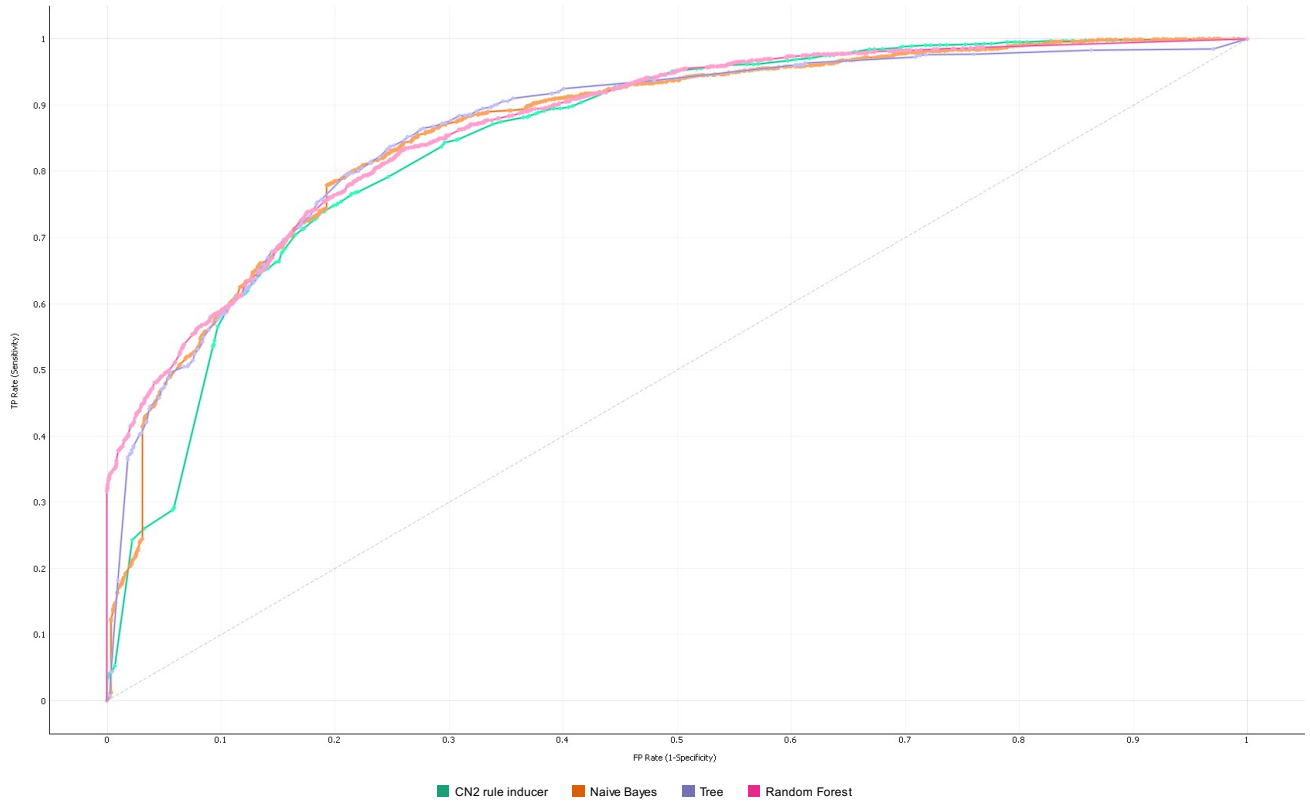
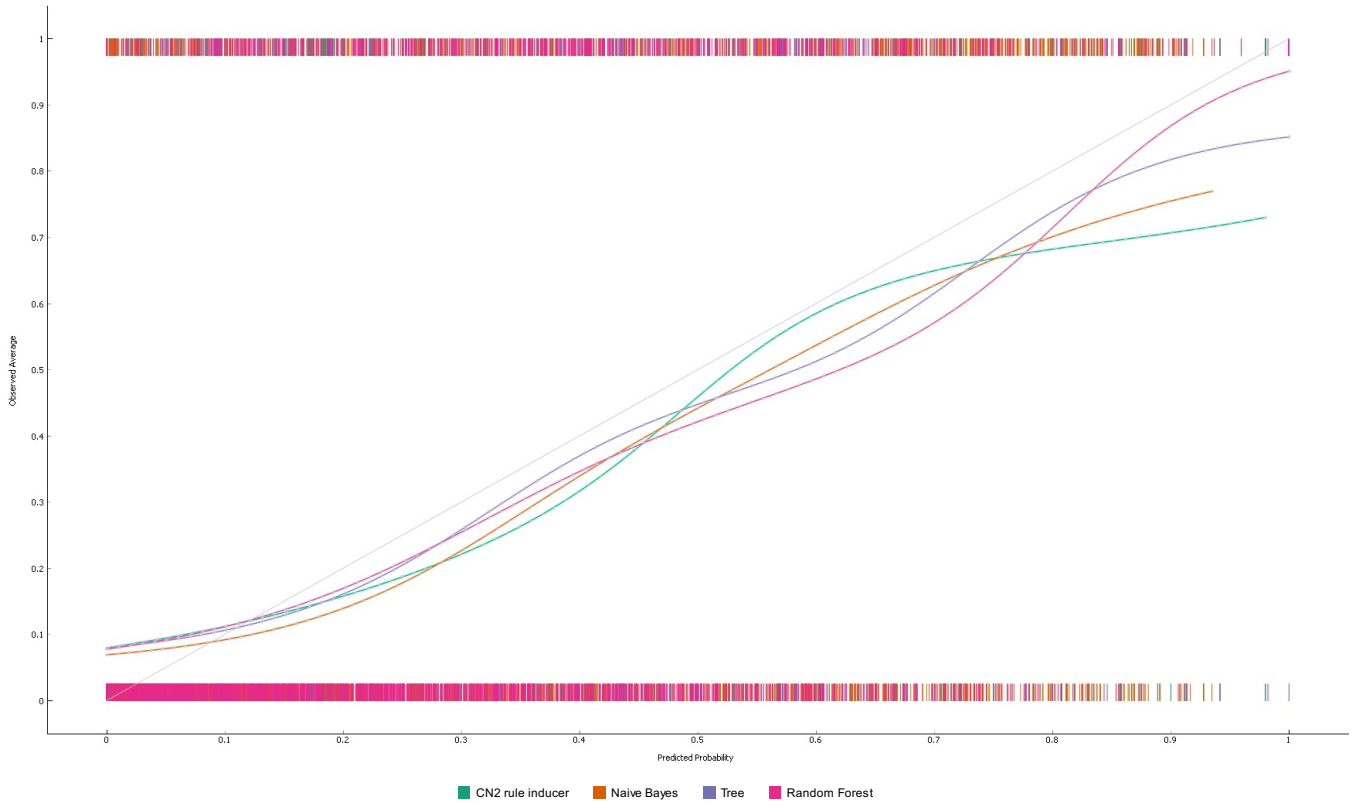
Target class: 1



Calibration Plot

Tue Jun 19 18, 01:35:17

Target class: 1