

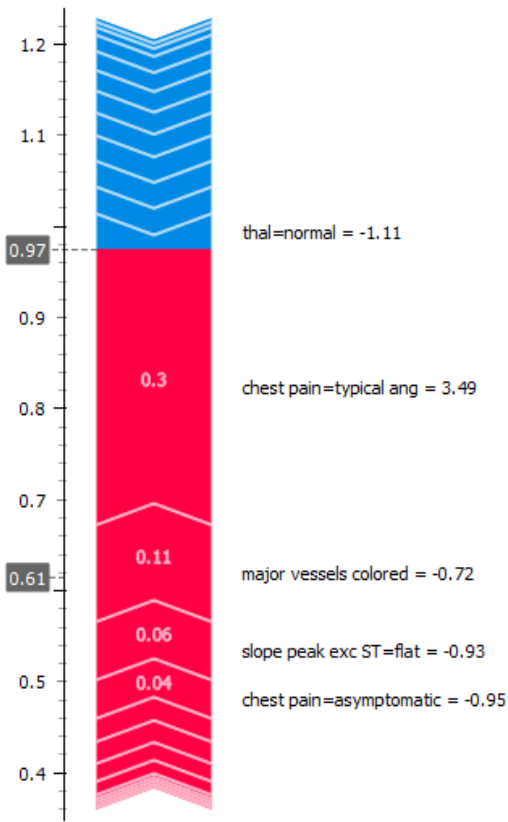
Settings

Sampling type: Stratified 5-fold Cross validation
Target class: None, show average over classes

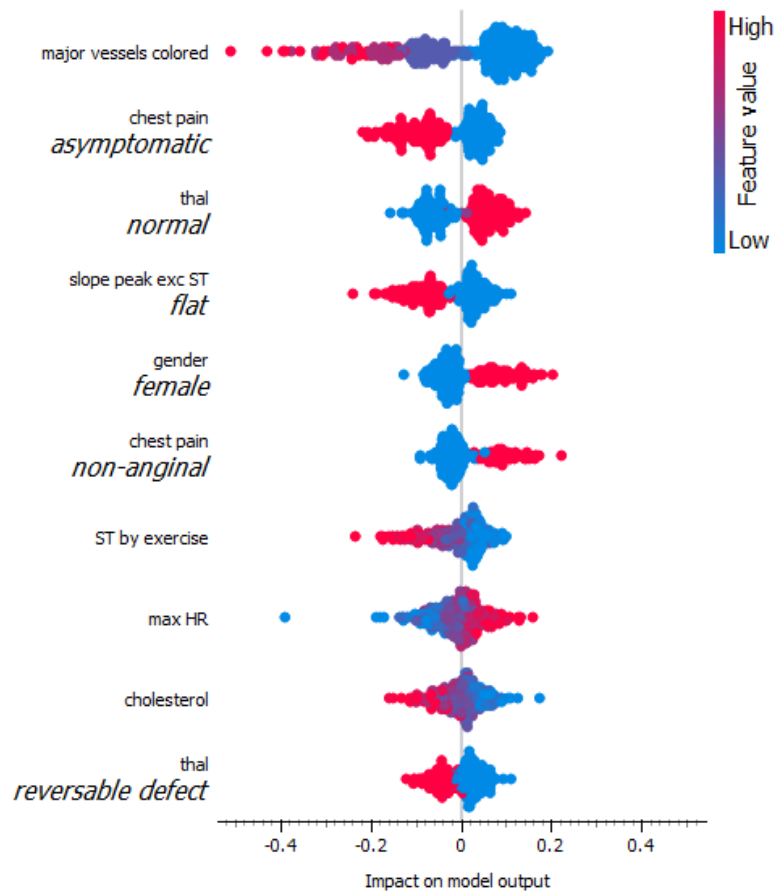
Scores

Model	AUC	CA	F1	Prec	Recall	MCC
Neural Network	0.894	0.828	0.828	0.828	0.828	0.654

Target class: 0



Target class: 0



Rank

Mon Oct 14 24, 16:11:45

Input

Features: age, gender, chest pain, rest SBP, cholesterol, fasting blood sugar > 120, rest ECG, max HR, exerc ind ang, ST by exercise, slope peak exc ST, major vessels colored, thal (total: 13 features)
Target: diameter narrowing

Ranks

		#	Gain ratio	Gini
1	C thal	3.0	0.168	0.137
2	C exerc ind ang	2.0	0.153	0.093
3	C chest pain	4.0	0.118	0.134
4	N major vessels colored		0.116	0.119
5	C slope peak exc ST	3.0	0.087	0.075
6	N ST by exercise		0.074	0.095
7	C gender	2.0	0.063	0.038
8	N max HR		0.062	0.081
9	N age		0.029	0.039
10	C rest ECG	3.0	0.022	0.016
11	N cholesterol		0.008	0.011
12	N rest SBP		0.008	0.010
13	C fasting blood sugar > 120	2.0	0.001	0.000

Data table properties

Name: heart_disease
Size: ~303 rows, 14 columns
Features: 7 categorical, 6 numeric
Targets: categorical outcome with 2 classes
Missing data: 6 (0.2%) in features

Additional attributes

Name: Heart Disease dataset
Description: Data on the presence of heart disease in patients.
Author: A. Janosi, W. Steinbrunn, M. Pfisterer, R. Detrano
Year: 1988
Reference: Detrano, R., Janosi, A., Steinbrunn, W., Pfisterer, M., Schmid, J., Sandhu, S., Guppy, K., Lee, S., & Froelicher, V. (1989). International application of a new probability algorithm for the diagnosis of coronary artery disease. American Journal of Cardiology, 64, 304-310.



File

File

File name: C:/Users/Cade/AppData/Local/Programs/Orange/Lib/site-packages/Orange/datasets/heart_disease.tab
Format: Tab-separated values

Data

Data instances: 303
Features: age, gender, chest pain, rest SBP, cholesterol, fasting blood sugar > 120, rest ECG, max HR, exerc ind ang, ST by exercise, slope peak exc ST, major vessels colored, thal (total: 13 features)
Target: diameter narrowing

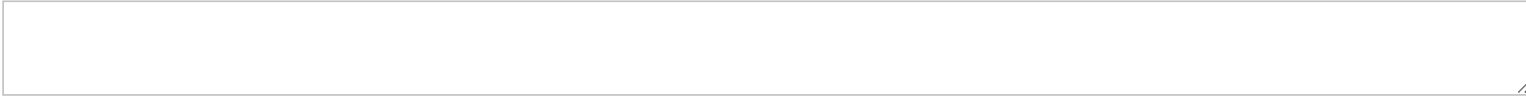


Data instances: 303
Features: 13
Meta attributes: None
Target: Class 'diameter narrowing'

	diameter narrowing	age	gender	chest pain	rest SBP	cholesterol	fasting blood sugar > 120	rest ECG	max HR	exerc ind ang	ST by exercise	slope peak exc ST	major vessels colored	thal
1	0	63	male	typical ang	145	233	1	left vent hypertrophy	150	0	2.3	downsloping	0	fixed defect
2	1	67	male	asymptomatic	160	286	0	left vent hypertrophy	108	1	1.5	flat	3	normal
3	1	67	male	asymptomatic	120	229	0	left vent hypertrophy	129	1	2.6	flat	2	reversible defect
4	0	37	male	non-anginal	130	250	0	normal	187	0	3.5	downsloping	0	normal
5	0	41	female	atypical ang	130	204	0	left vent hypertrophy	172	0	1.4	upsloping	0	normal
6	0	56	male	atypical ang	120	236	0	normal	178	0	0.8	upsloping	0	normal
7	1	62	female	asymptomatic	140	268	0	left vent hypertrophy	160	0	3.6	downsloping	2	normal
8	0	57	female	asymptomatic	120	354	0	normal	163	1	0.6	upsloping	0	normal
9	1	63	male	asymptomatic	130	254	0	left vent hypertrophy	147	0	1.4	flat	1	reversible defect
10	1	53	male	asymptomatic	140	203	1	left vent hypertrophy	155	1	3.1	downsloping	0	reversible defect
11	0	57	male	asymptomatic	140	192	0	normal	148	0	0.4	flat	0	fixed defect
12	0	56	female	atypical ang	140	294	0	left vent hypertrophy	153	0	1.3	flat	0	normal
13	1	56	male	non-anginal	130	256	1	left vent hypertrophy	142	1	0.6	flat	1	fixed defect
14	0	44	male	atypical ang	120	263	0	normal	173	0	0.0	upsloping	0	reversible defect
15	0	52	male	non-anginal	172	199	1	normal	162	0	0.5	upsloping	0	reversible defect
16	0	57	male	non-anginal	150	168	0	normal	174	0	1.6	upsloping	0	normal
17	1	48	male	atypical ang	110	229	0	normal	168	0	1.0	downsloping	0	reversible defect
18	0	54	male	asymptomatic	140	239	0	normal	160	0	1.2	upsloping	0	normal
19	0	48	female	non-anginal	130	275	0	normal	139	0	0.2	upsloping	0	normal
20	0	49	male	atypical ang	130	266	0	normal	171	0	0.6	upsloping	0	normal
21	0	64	male	typical ang	110	211	0	left vent hypertrophy	144	1	1.8	flat	0	normal
22	0	58	female	typical ang	150	283	1	left vent hypertrophy	162	0	1.0	upsloping	0	normal
23	1	58	male	atypical ang	120	284	0	left vent hypertrophy	160	0	1.8	flat	0	normal
24	1	58	male	non-anginal	132	224	0	left vent hypertrophy	173	0	3.2	upsloping	2	reversible defect
25	1	60	male	asymptomatic	130	206	0	left vent hypertrophy	132	1	2.4	flat	2	reversible defect
26	0	50	female	non-anginal	120	219	0	normal	158	0	1.6	flat	0	normal
27	0	58	female	non-anginal	120	340	0	normal	172	0	0.0	upsloping	0	normal
28	0	66	female	typical ang	150	226	0	normal	114	0	2.6	downsloping	0	normal
29	0	43	male	asymptomatic	150	247	0	normal	171	0	1.5	upsloping	0	normal
30	1	40	male	asymptomatic	110	167	0	left vent hypertrophy	114	1	2.0	flat	0	reversible defect
31	0	69	female	typical ang	140	239	0	normal	151	0	1.8	upsloping	2	normal
32	1	60	male	asymptomatic	117	230	1	normal	160	1	1.4	upsloping	2	reversible defect
33	1	64	male	non-anginal	140	335	0	normal	158	0	0.0	upsloping	0	normal
34	0	59	male	asymptomatic	135	234	0	normal	161	0	0.5	flat	0	reversible defect
35	0	44	male	non-anginal	130	233	0	normal	179	1	0.4	upsloping	0	normal
36	0	42	male	asymptomatic	140	226	0	normal	178	0	0.0	upsloping	0	normal
37	1	43	male	asymptomatic	120	177	0	left vent hypertrophy	120	1	2.5	flat	0	reversible defect
38	1	57	male	asymptomatic	150	276	0	left vent hypertrophy	112	1	0.6	flat	1	fixed defect
39	1	55	male	asymptomatic	132	353	0	normal	132	1	1.2	flat	1	reversible defect

40	0	61	male	non-anginal	150	243	1	normal	137	1	1.0	flat	0	normal
41	1	65	female	asymptomatic	150	225	0	left vent hypertrophy	114	0	1.0	flat	3	reversible defect
42	0	40	male	typical ang	140	199	0	normal	178	1	1.4	upsloping	0	reversible defect
43	0	71	female	atypical ang	160	302	0	normal	162	0	0.4	upsloping	2	normal
44	0	59	male	non-anginal	150	212	1	normal	157	0	1.6	upsloping	0	normal
45	1	61	female	asymptomatic	130	330	0	left vent hypertrophy	169	0	0.0	upsloping	0	normal
46	1	58	male	non-anginal	112	230	0	left vent hypertrophy	165	0	2.5	flat	1	reversible defect
47	0	51	male	non-anginal	110	175	0	normal	123	0	0.6	upsloping	0	normal
48	1	50	male	asymptomatic	150	243	0	left vent hypertrophy	128	0	2.6	flat	0	reversible defect
49	0	65	female	non-anginal	140	417	1	left vent hypertrophy	157	0	0.8	upsloping	1	normal
50	0	53	male	non-anginal	130	197	1	left vent hypertrophy	152	0	1.2	downsloping	0	normal
51	0	41	female	atypical ang	105	198	0	normal	168	0	0.0	upsloping	1	normal
52	0	65	male	asymptomatic	120	177	0	normal	140	0	0.4	upsloping	0	reversible defect
53	1	44	male	asymptomatic	112	290	0	left vent hypertrophy	153	0	0.0	upsloping	1	normal
54	0	44	male	atypical ang	130	219	0	left vent hypertrophy	188	0	0.0	upsloping	0	normal
55	1	60	male	asymptomatic	130	253	0	normal	144	1	1.4	upsloping	1	reversible defect
56	1	54	male	asymptomatic	124	266	0	left vent hypertrophy	109	1	2.2	flat	1	reversible defect
57	1	50	male	non-anginal	140	233	0	normal	163	0	0.6	flat	1	reversible defect
58	1	41	male	asymptomatic	110	172	0	left vent hypertrophy	158	0	0.0	upsloping	0	reversible defect
59	0	54	male	non-anginal	125	273	0	left vent hypertrophy	152	0	0.5	downsloping	1	normal
60	0	51	male	typical ang	125	213	0	left vent hypertrophy	125	1	1.4	upsloping	1	normal
61	1	51	female	asymptomatic	130	305	0	normal	142	1	1.2	flat	0	reversible defect
62	0	46	female	non-anginal	142	177	0	left vent hypertrophy	160	1	1.4	downsloping	0	normal
63	1	58	male	asymptomatic	128	216	0	left vent hypertrophy	131	1	2.2	flat	3	reversible defect
64	0	54	female	non-anginal	135	304	1	normal	170	0	0.0	upsloping	0	normal
65	1	54	male	asymptomatic	120	188	0	normal	113	0	1.4	flat	1	reversible defect
66	1	60	male	asymptomatic	145	282	0	left vent hypertrophy	142	1	2.8	flat	2	reversible defect
67	1	60	male	non-anginal	140	185	0	left vent hypertrophy	155	0	3.0	flat	0	normal
68	0	54	male	non-anginal	150	232	0	left vent hypertrophy	165	0	1.6	upsloping	0	reversible defect
69	1	59	male	asymptomatic	170	326	0	left vent hypertrophy	140	1	3.4	downsloping	0	reversible defect
70	1	46	male	non-anginal	150	231	0	normal	147	0	3.6	flat	0	normal
71	0	65	female	non-anginal	155	269	0	normal	148	0	0.8	upsloping	0	normal
72	1	67	male	asymptomatic	125	254	1	normal	163	0	0.2	flat	2	reversible defect
73	1	62	male	asymptomatic	120	267	0	normal	99	1	1.8	flat	2	reversible defect
74	1	65	male	asymptomatic	110	248	0	left vent hypertrophy	158	0	0.6	upsloping	2	fixed defect
75	1	44	male	asymptomatic	110	197	0	left vent hypertrophy	177	0	0.0	upsloping	1	normal
76	0	65	female	non-anginal	160	360	0	left vent hypertrophy	151	0	0.8	upsloping	0	normal
77	1	60	male	asymptomatic	125	258	0	left vent hypertrophy	141	1	2.8	flat	1	reversible defect
78	0	51	female	non-anginal	140	308	0	left vent hypertrophy	142	0	1.5	upsloping	1	normal
79	0	48	male	atypical ang	130	245	0	left vent hypertrophy	180	0	0.2	flat	0	normal
80	1	58	male	asymptomatic	150	270	0	left vent hypertrophy	111	1	0.8	upsloping	0	reversible defect
81	0	45	male	asymptomatic	104	208	0	left vent hypertrophy	148	1	3.0	flat	0	normal

82	0	53	female	asymptomatic	130	264	0	left vent hypertrophy	143	0	0.4	flat	0	normal
83	0	39	male	non-anginal	140	321	0	left vent hypertrophy	182	0	0.0	upsloping	0	normal
84	1	68	male	non-anginal	180	274	1	left vent hypertrophy	150	1	1.6	flat	0	reversable defect
85	0	52	male	atypical ang	120	325	0	normal	172	0	0.2	upsloping	0	normal
86	0	44	male	non-anginal	140	235	0	left vent hypertrophy	180	0	0.0	upsloping	0	normal
87	0	47	male	non-anginal	138	257	0	left vent hypertrophy	156	0	0.0	upsloping	0	normal
88	0	53	female	non-anginal	128	216	0	left vent hypertrophy	115	0	0.0	upsloping	0	?
89	0	53	female	asymptomatic	138	234	0	left vent hypertrophy	160	0	0.0	upsloping	0	normal
90	0	51	female	non-anginal	130	256	0	left vent hypertrophy	149	0	0.5	upsloping	0	normal
91	0	66	male	asymptomatic	120	302	0	left vent hypertrophy	151	0	0.4	flat	0	normal
92	1	62	female	asymptomatic	160	164	0	left vent hypertrophy	145	0	6.2	downsloping	3	reversable defect
93	0	62	male	non-anginal	130	231	0	normal	146	0	1.8	flat	3	reversable defect
94	0	44	female	non-anginal	108	141	0	normal	175	0	0.6	flat	0	normal
95	0	63	female	non-anginal	135	252	0	left vent hypertrophy	172	0	0.0	upsloping	0	normal
96	1	52	male	asymptomatic	128	255	0	normal	161	1	0.0	upsloping	1	reversable defect
97	1	59	male	asymptomatic	110	239	0	left vent hypertrophy	142	1	1.2	flat	1	reversable defect
98	1	60	female	asymptomatic	150	258	0	left vent hypertrophy	157	0	2.6	flat	2	reversable defect
99	0	52	male	atypical ang	134	201	0	normal	158	0	0.8	upsloping	1	normal
100	0	48	male	asymptomatic	122	222	0	left vent hypertrophy	186	0	0.0	upsloping	0	normal
+ 203 more														



Score: AUC
Permutations: 5

