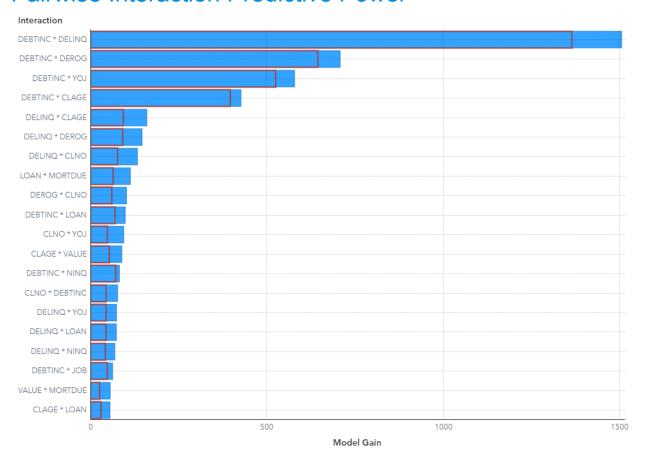


by: David Weik

Contents

Pairwise Interaction Predictive Power	3
Node Statistics	4
Properties	5
Output	7

Pairwise Interaction Predictive Power



Node Statistics

Run Statistics

Last Run (UTC)	Setup (sec)	Run Duration (sec)	Pipeline Run	User
24Jan2024:10:49:14	2.184	3.710	True	gerdaw

Properties

Property Name	Property Value
_omitJsonListing	true
_omitSessionResult	true
_omitTextListing	true
analysisVariables	GROUP
casSessionId	abfce174-3fc1- ac44- adaa-1f411bada60 0
codeFile	cs_pairwise.sas
codeFormat	FILE
codeLanguage	SAS
codeLocation	vriskmdsvr
component	cs_pairwise
dataMiningVersion	V2024.01
defaultVarsPerTree	true
distribution	POISSON
earlyStop	true
earlyStopMethod	STAGNATION
esMetric	MCR
esMinimum	false
esThreshold	0
esThresholdIter	0
intBinMethod	QUANTILE
intervalBins	50
lasso	0
learningRate	0.1000
maxBranch	2
maxCategories	128

Property Name	Property Value
maxDepth	4
minLeafSize	5
minUseInSearch	1
missingValue	USEINSEARCH
modeling	false
ntrees	100
numInteractions	20
power	1.5000
prefix	cs_pairwise
reportingOnly	false
ridge	1
scoreCodeFormat	DS1
seed	12,345
stagnation	5
subsampleRate	0.5000
templateRevision	1
tolerance	0
trainOnly	false
userDefined	false
varsToTry	100
version	1

Output



The SAS System

Pairwise Interaction Predictive Power

Obs	Interaction	Feature 1 Gain	Feature 2 Gain	Model Gain
1	DEBTINC * DELINQ	1364.52	141.317	1505.84
2	DEBTING * DEROG	645.39	62.526	707.92
3	DEBTING * YOJ	525.74	53.119	578.86
4	DEBTINC * CLAGE	396.93	29.955	426.88
5	DELINQ * CLAGE	92.66	67.258	159.92
6	DELINQ * DEROG	91.22	55.430	146.65
7	DELINQ * CLNO	77.45	55.790	133.24
8	LOAN * MORTDUE		49.565	113.09
9	DEROG * CLNO	63.53 60.57		
			41.892	102.46
10	DEBTINC * LOAN	69.61	29.012	98.62
11	CLNO * YOJ	48.19	46.304	94.50
12	CLAGE * VALUE	53.81	35.276	89.09
13	DEBTINC * NINQ	70.79	11.472	82.27
14	CLNO * DEBTINC	43.63	33.697	77.33
15	DELINQ * YOJ	44.48	29.654	74.13
16	DELINQ * LOAN	44.91	28.776	73.68
17	DELINQ * NINQ	42.61	26.628	69.24
18	DEBTINC * JOB	47.55	15.609	63.16
19	VALUE * MORTDUE	26.54	29.755	56.30
20	CLAGE * LOAN	29.06	26.647	55.71
21	YOJ * NINQ	34.67	17.937	52.61
22	DEROG * CLAGE	32.73	19.762	52.49
23	CLNO * CLAGE	28.39	22.199	50.59
24	DEROG * NINQ	32.69	16.242	48.94
25	DEROG * JOB	30.23	17.945	48.18
26	VALUE * LOAN	25.75	20.216	45.96
27	DELINQ * VALUE	26.42	19.246	45.66
28	DEBTINC * MORTDUE	26.91	16.883	43.79
29	NINQ * MORTDUE	24.09	19.038	43.13
30	CLAGE * YOJ	28.74	13.610	42.35
31	DEROG * LOAN	24.50	17.323	41.82
32	CLNO * MORTDUE	20.11	21.375	41.48
33	YOJ * LOAN	22.26	17.252	39.51
34	DEROG * MORTDUE	21.92	16.968	38.89
35	CLNO * JOB	19.28	17.943	37.22
36	DEROG * YOJ	23.70	13.465	37.17
37				
	CLNO * NINQ	22.80	14.271	37.08
38	DELINQ * MORTDUE	24.26	12.251	36.51
39	MORTDUE * CLAGE	20.57	15.114	35.69
40	CLNO * LOAN	16.91	18.525	35.43
41	VALUE * YOJ	20.93	13.995	34.92
42	DEROG * VALUE	20.59	14.166	34.75
43	MORTDUE * JOB	21.25	12.473	33.73
44	LOAN * NINQ	18.55	15.142	33.69
45	YOJ * MORTDUE	15.69	15.888	31.58
46	CLNO * REASON	16.04	14.970	31.01
47	CLNO * VALUE	15.11	11.249	26.36
48	JOB * YOJ	13.89	10.415	24.31
49	VALUE * JOB	13.93	8.209	22.14
50	DEBTINC * VALUE	11.43	8.416	19.84
51	VALUE * NINQ	11.30	8.484	19.79
52	JOB * NINQ	11.80	5.882	17.68
53	CLAGE * NINQ	9.91	5.035	14.95
54	CLAGE * JOB	8.09	6.399	14.49
55	REASON * YOJ	11.20	1.664	12.87
56	LOAN * JOB	6.51	5.945	12.46
57	JOB * DELINQ	5.53	4.388	9.92
58	DELINQ * REASON	6.59	2.704	9.30
59	REASON * MORTDUE	4.65	2.704	
				7.32
60	REASON * NINQ	4.34	2.624	6.96
61	DEBTINC * REASON	3.69	2.070	5.76
62	REASON * DEROG	2.89	2.492	5.38
63	LOAN * REASON	2.38	2.886	5.26