SAS Enterprise Miner Report

Model Summary
Data

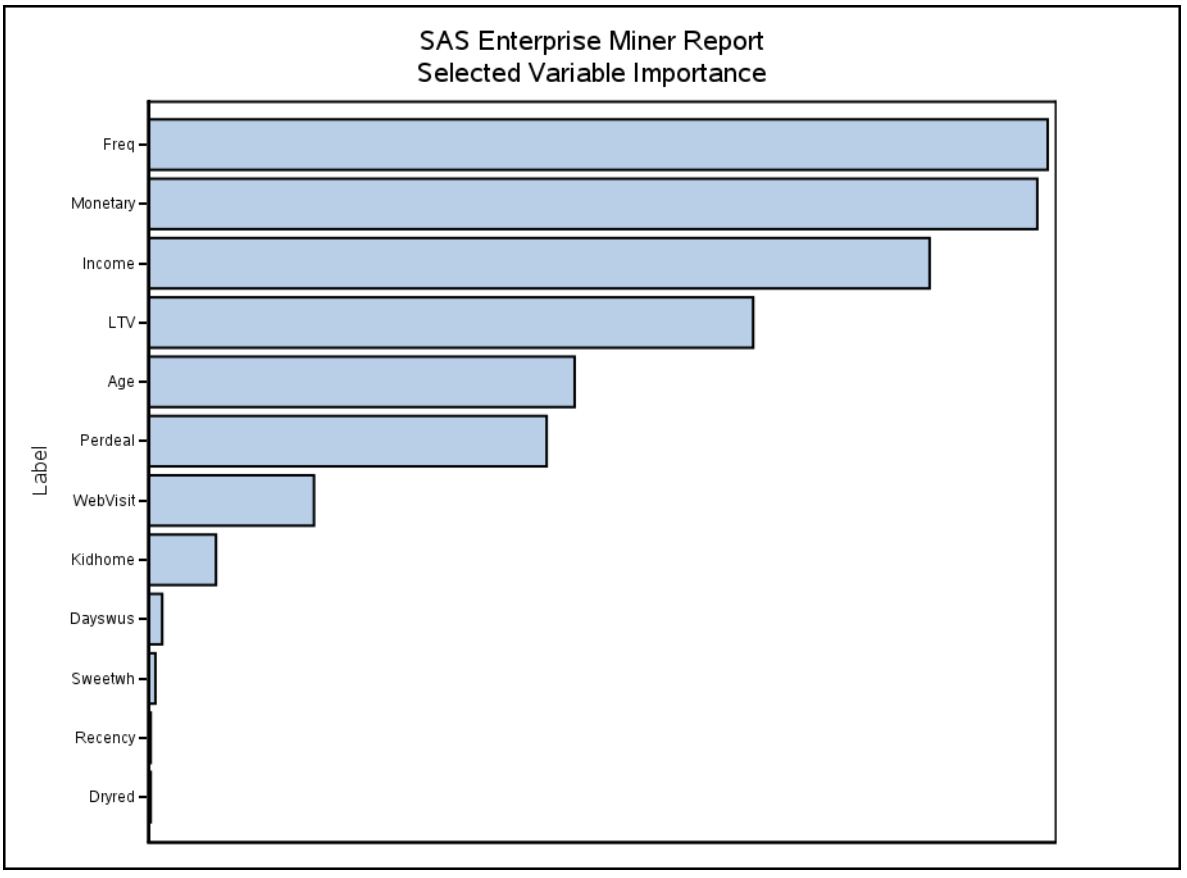
Property	Value
Input Data Source	EMWS1.FIMPORT_DATA
Target Variable	Humid
Event Level	1
Observations	2000
Original Variables	23
Selected Variables	12

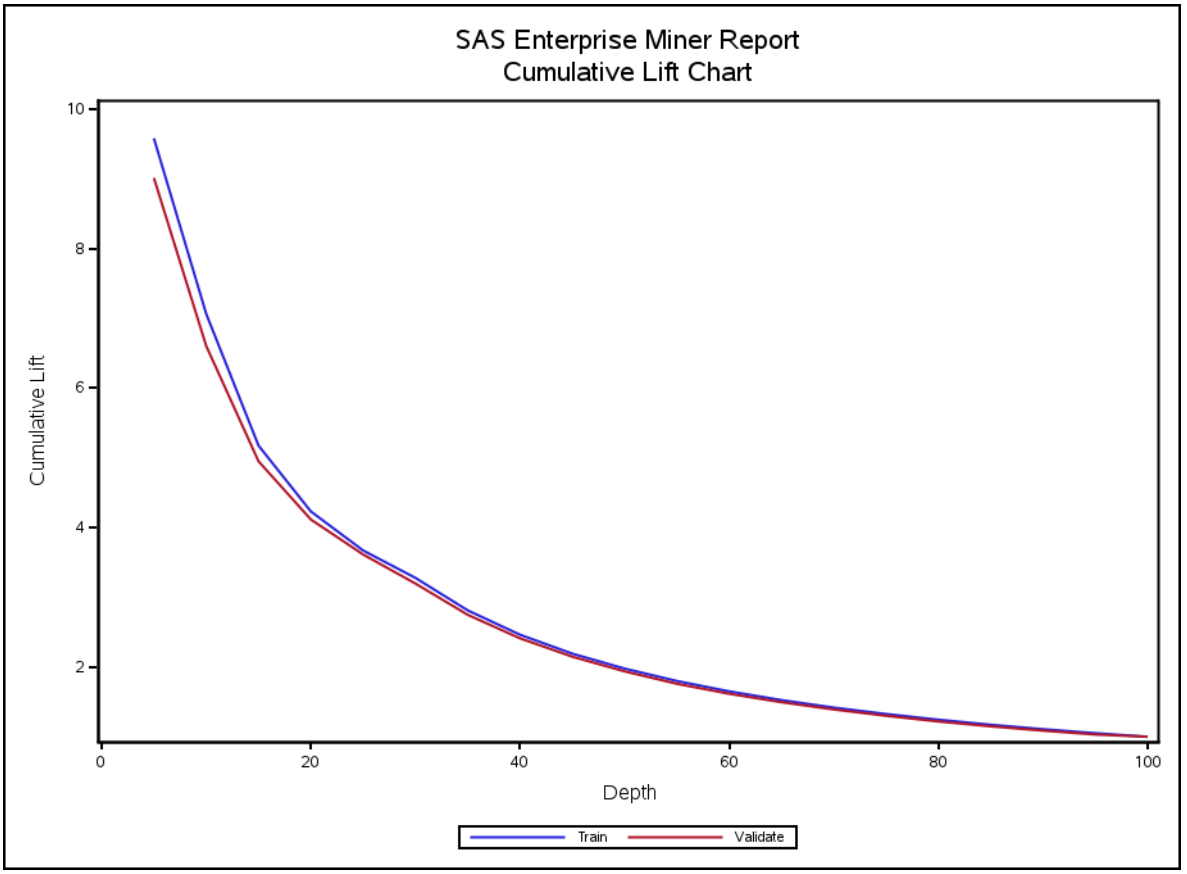
Target: Humid

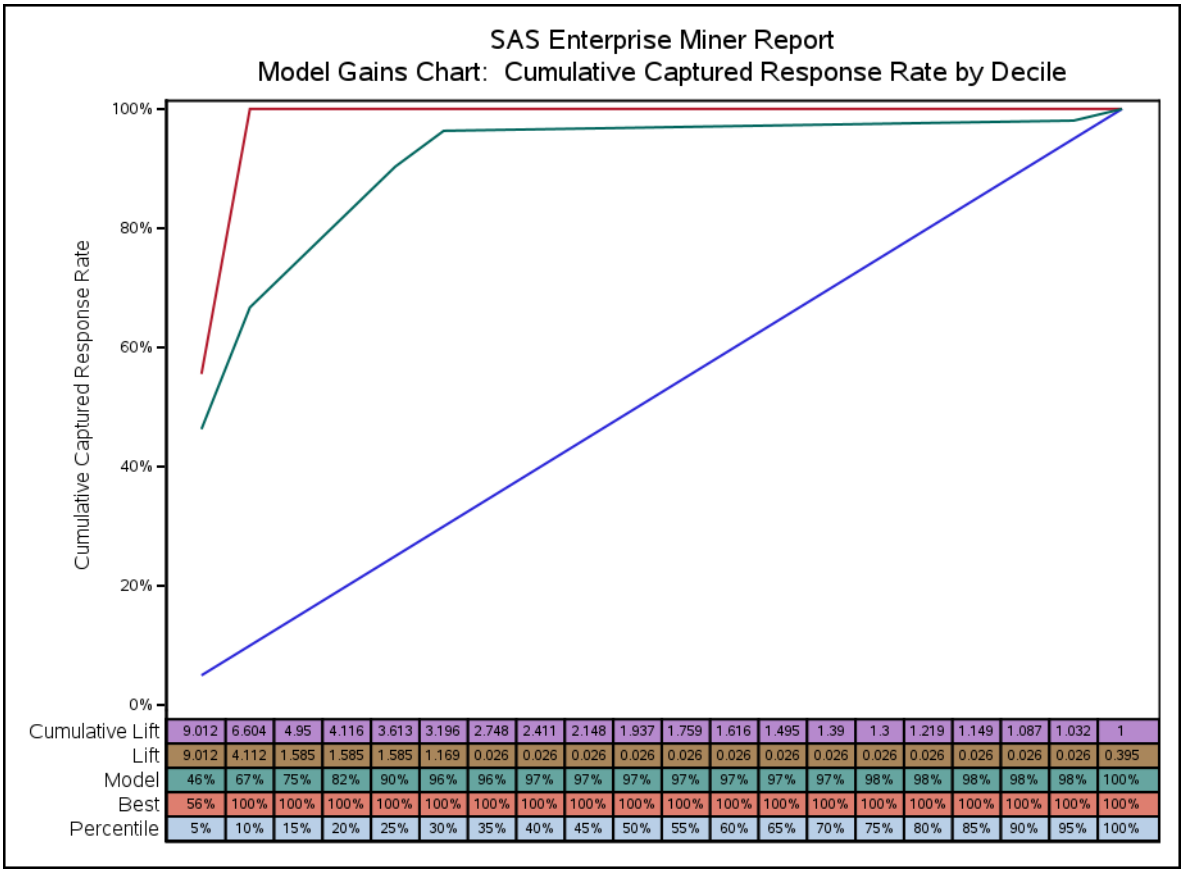
Value	Count	Data Percentage
1	123	9.0708
0	1233	90.9292

Variable Summary

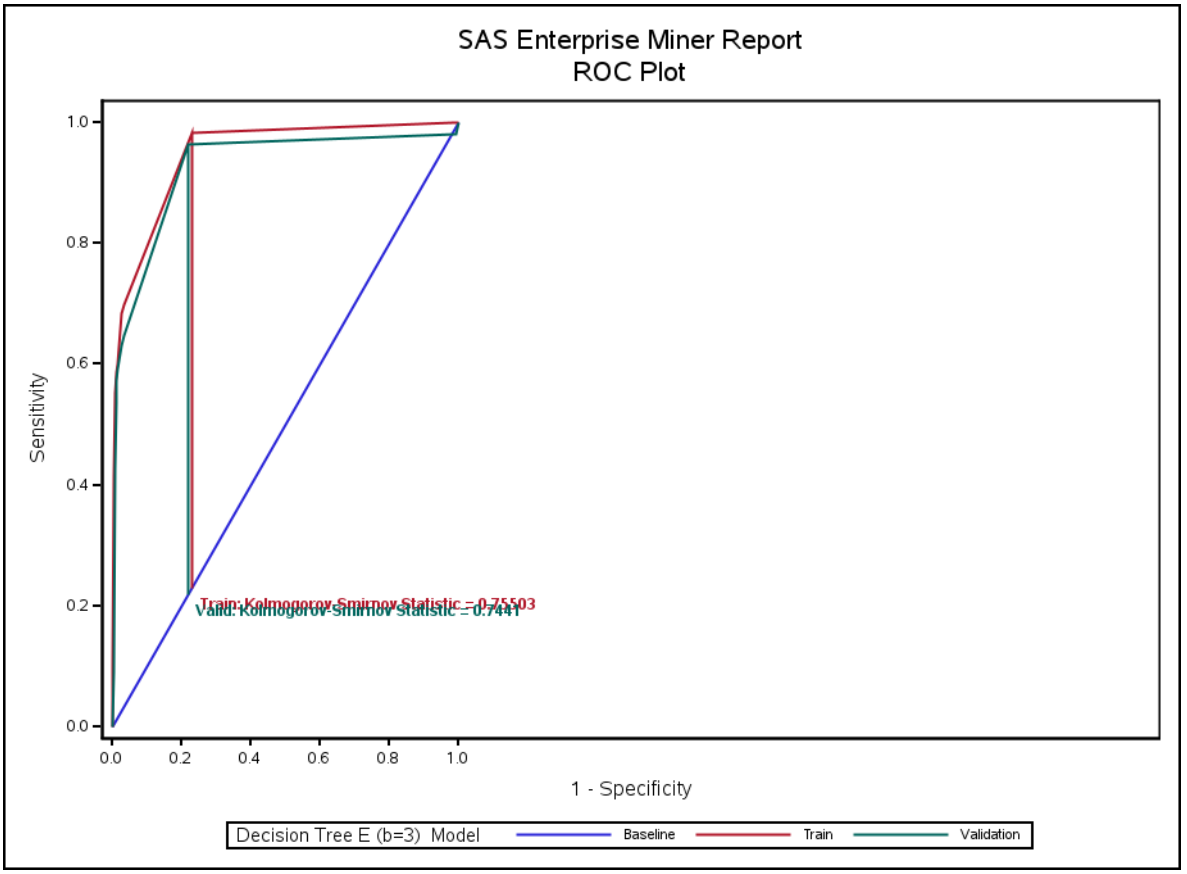
Role	Level	Original Count	Selected Input Count
Assess	Nominal	1	0
ID	Interval	1	0
ID	Nominal	1	0
Input	Binary	2	1
Input	Interval	19	7
Input	Nominal	1	0
Rejected	Interval	2	1
Rejected	Nominal	2	0
Target	Binary	1	0







Cumulative Lift	9.012	6.604	4.95	4.116	3.613	3.196	2.748	2.411	2.148	1.937	1.759	1.616	1.495	1.39	1.3	1.219	1.149	1.087	1.032	1
Lift	9.012	4.112	1.585	1.585	1.585	1.169	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.395
Model	46%	67%	75%	82%	90%	96%	96%	97%	97%	97%	97%	97%	97%	97%	98%	98%	98%	98%	98%	100%
Best	56%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Percentile	5%	10%	15%	20%	25%	30%	35%	40%	45%	50%	55%	60%	65%	70%	75%	80%	85%	90%	95%	100%



Variable Attribute Importance and Crosstabulations

		Scorecard Points	Overall N	Overall %	Humid			
					0		1	
					N	%	N	%
Age	1: LOW - 59.5	7.00	.	.	915.00	74.21	9.00	7.32
	2: 59.5 - 71.5	0.00	.	.	228.00	18.49	42.00	34.15
	3: 71.5 - HIGH	4.00	.	.	90.00	7.30	72.00	58.54
Dayswus	1: LOW - 1243	0.00	.	.	1223.00	99.19	122.00	99.19
	2: 1243 - HIGH	116.00	.	.	10.00	0.81	1.00	0.81
Dryred	1: LOW - 63.5	0.00	.	.	798.00	64.72	86.00	69.92
	2: 63.5 - 64.5	233.00	.	.	15.00	1.22	5.00	4.07
	3: 64.5 - HIGH	139.00	.	.	420.00	34.06	32.00	26.02
Freq	1: LOW - 33.5	0.00	.	.	1175.00	95.30	37.00	30.08
	2: 33.5 - 40.5	101.00	.	.	53.00	4.30	61.00	49.59
	3: 40.5 - HIGH	97.00	.	.	5.00	0.41	25.00	20.33
Income	1: LOW - 95400.5	0.00	.	.	1034.00	83.86	12.00	9.76
	2: 95400.5 - 99638.5	51.00	.	.	64.00	5.19	8.00	6.50
	3: 99638.5 - 116437	53.00	.	.	124.00	10.06	61.00	49.59
	4: 116437 - 121269.5	155.00	.	.	5.00	0.41	14.00	11.38
	5: 121269.5 - HIGH	150.00	.	.	6.00	0.49	28.00	22.76
Kidhome	0	0.00	.	.	680.00	55.15	118.00	95.93
	1	49.00	.	.	553.00	44.85	5.00	4.07
LTV	1: LOW - 478	43.00	.	.	1083.00	87.83	15.00	12.20
	2: 478 - 538.5	0.00	.	.	27.00	2.19	4.00	3.25
	3: 538.5 - 764.5	47.00	.	.	80.00	6.49	47.00	38.21
	4: 764.5 - 816	48.00	.	.	10.00	0.81	20.00	16.26
	5: 816 - 1012	46.00	.	.	27.00	2.19	18.00	14.63

(Continued)

		Scorecard Points	Overall N	Overall %	Humid			
					0		1	
					N	%	N	%
LTV	6: 1012 - HIGH	48.00	.	.	6.00	0.49	19.00	15.45
Monetary	1: LOW - 1696.5	0.00	.	.	1174.00	95.21	37.00	30.08
	2: 1696.5 - HIGH	193.00	.	.	59.00	4.79	86.00	69.92
Perdeal	1: LOW - 0.5	41.00	.	.	6.00	0.49	17.00	13.82
	2: 0.5 - 1.5	43.00	.	.	75.00	6.08	47.00	38.21
	3: 1.5 - 3.5	45.00	.	.	104.00	8.43	39.00	31.71
	4: 3.5 - 10.5	0.00	.	.	150.00	12.17	15.00	12.20
	5: 10.5 - HIGH	1.00	.	.	898.00	72.83	5.00	4.07
Recency	1: LOW - 3.5	3.00	.	.	35.00	2.84	4.00	3.25
	2: 3.5 - HIGH	0.00	.	.	1198.00	97.16	119.00	96.75
Sweetwh	1: LOW - 13.5	51.00	.	.	1039.00	84.27	115.00	93.50
	2: 13.5 - HIGH	0.00	.	.	194.00	15.73	8.00	6.50
WebVisit	1: LOW - 2.5	1.00	.	.	168.00	13.63	71.00	57.72
	2: 2.5 - 3.5	0.00	.	.	124.00	10.06	21.00	17.07
	3: 3.5 - HIGH	0.00	.	.	941.00	76.32	31.00	25.20

Classification Matrix Target=Humid

	Data Role			
	TRAIN		VALIDATE	
	Predicted		Predicted	
	0	1	0	1
Target				
0	98.86	1.14	98.68	1.32
1	41.46	58.54	42.59	57.41

Model Fit Statistics

Statistic	Train	Validation
Average Squared Error	0.0386	0.0441
Maximum Absolute Error	0.9979	1.0000
Sum of Frequencies	1356.0000	584.0000
Root Average Square Error	0.1966	0.2101
Sum of Square Errors	104.7967	51.5479
Misclassification Rate	0.0479	0.0514
Roc Index	0.9480	0.9260
Gini Coefficient	0.8970	0.8510
Kolmogorov-Smirnov Statistic	0.7550	0.7440
Kolmogorov-Smirnov Probability Cutoff	0.0030	.
Lift at 10%	4.5469	4.1118
Cumulative Lift at 10%	7.0638	6.6036
Captured Response at 10%	22.8017	20.4183
Cumulative % Captured Response at 10%	70.8466	66.7146

Model Selection based on Valid: Misclassification Rate

Selected Model	Model Node	Model Description	Target Label	Train: Akaike's Information Criterion	Train: Lift	Valid: Lift
Y	Tree5	Decision Tree E (b=3)	Humid	.	4.54692	4.11182
	Neural2	Neural Network (2)	Humid	425.453	6.32281	4.84802
	Neural	Neural Network (Training Tech. Backprop)	Humid	425.393	6.32281	4.47510
	Tree4	Decision Tree E (b=2)	Humid	.	6.11549	5.93811
	Tree	Decision Tree PC(b=2)	Humid	.	5.21955	4.40160
	Tree3	Decision Tree PC(b=4)	Humid	.	5.78775	5.11126
	Tree2	Decision Tree PC(b=3)	Humid	.	5.85778	5.22815
	Tree6	Decision Tree E (b=4)	Humid	.	4.78496	4.32593

Project Information

Property	Value
Name	Predictive Modeling
Diagram	Predictive Modeling
Path	/home/u63322048/Predictive Modeling
Date Created	29 June 2023 11:13:10

End of Report