

SAS Enterprise Miner Report

Model Summary
Data

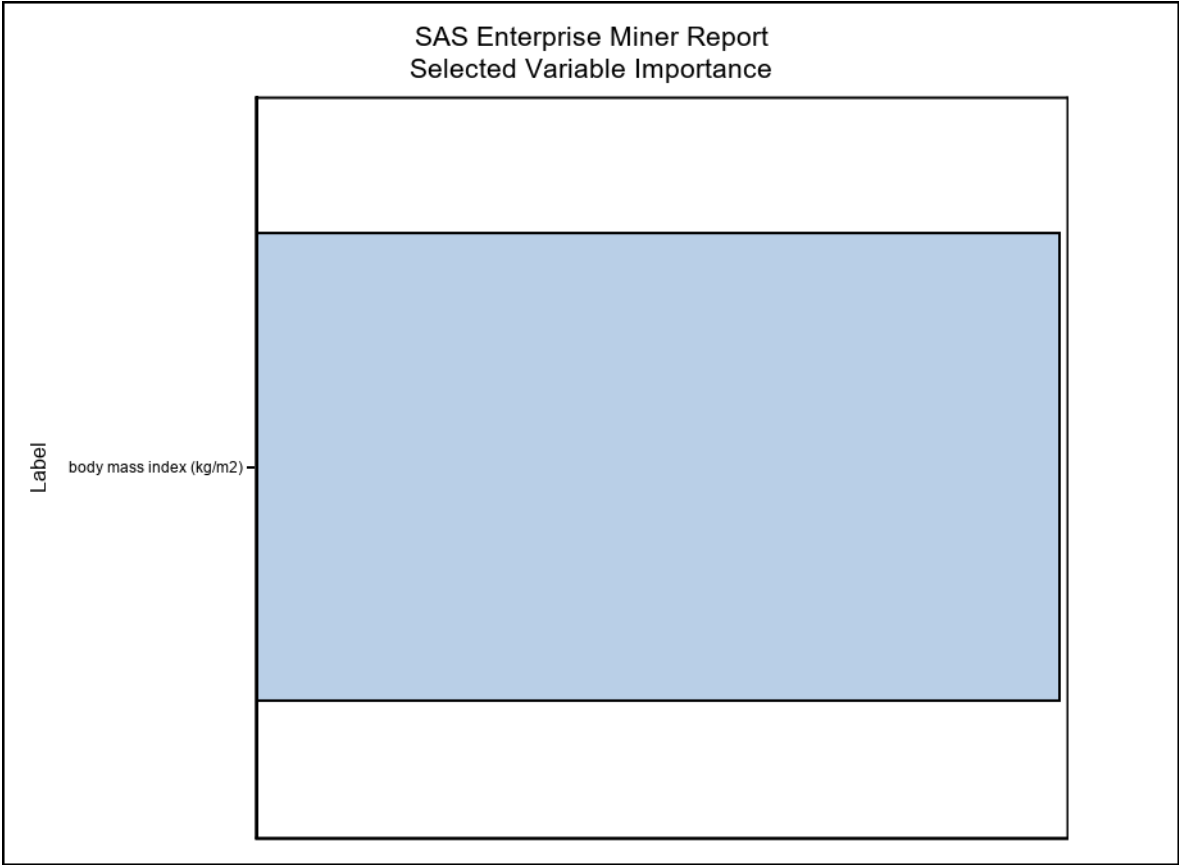
Property	Value
Input Data Source	REFL_BAS.REFLUX_QUESTION1
Target Variable	reflux subgroup
Event Level	TRUE_GERD
Observations	393
Original Variables	113
Selected Variables	1

Target: reflux subgroup

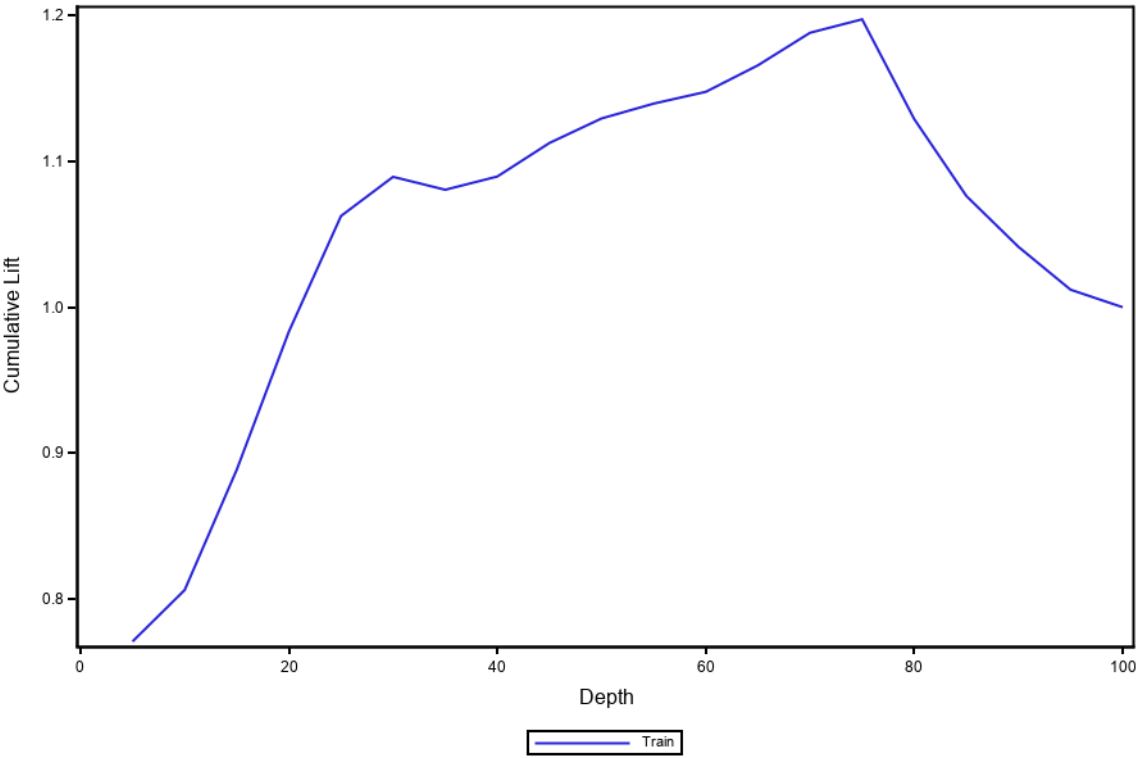
Value	Count	Data Percentage
TRUE_GERD	98	24.9364
BORDERLINE_GERD	85	21.6285
RHS	77	19.5929
FH	133	33.8422

Variable Summary

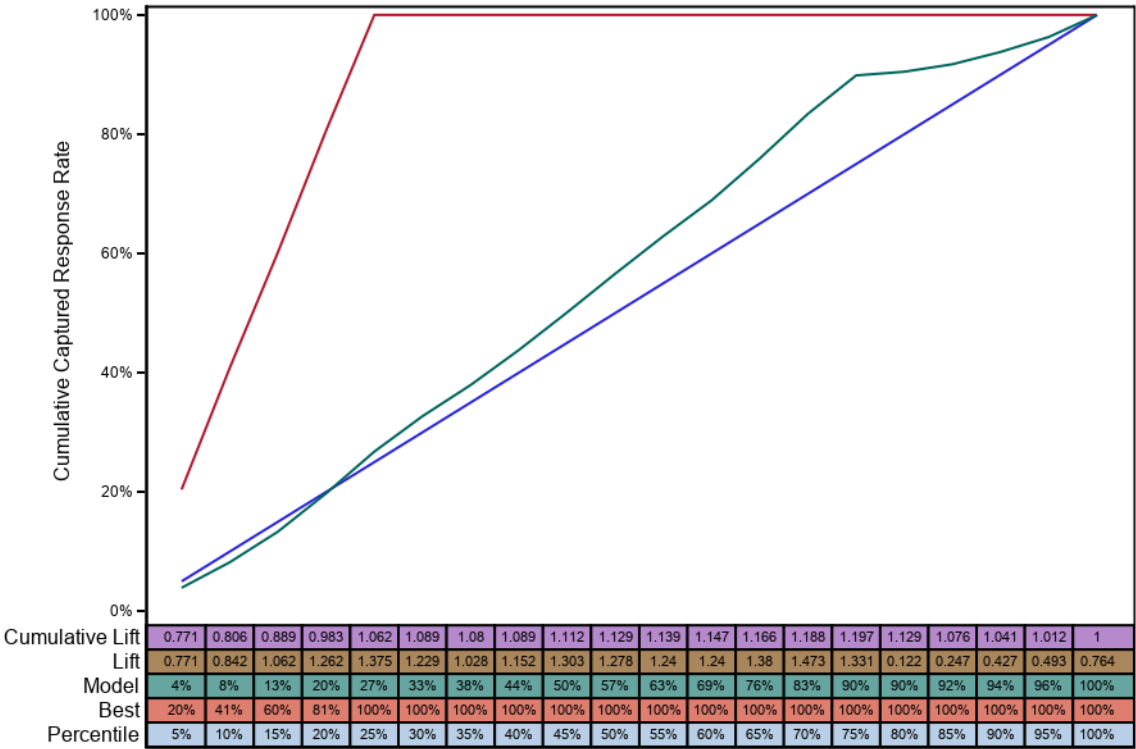
Role	Level	Original Count	Selected Input Count
ID	Interval	1	0
Input	Binary	1	0
Input	Interval	21	1
Rejected	Binary	10	0
Rejected	Interval	71	0
Rejected	Nominal	8	0
Target	Nominal	1	0

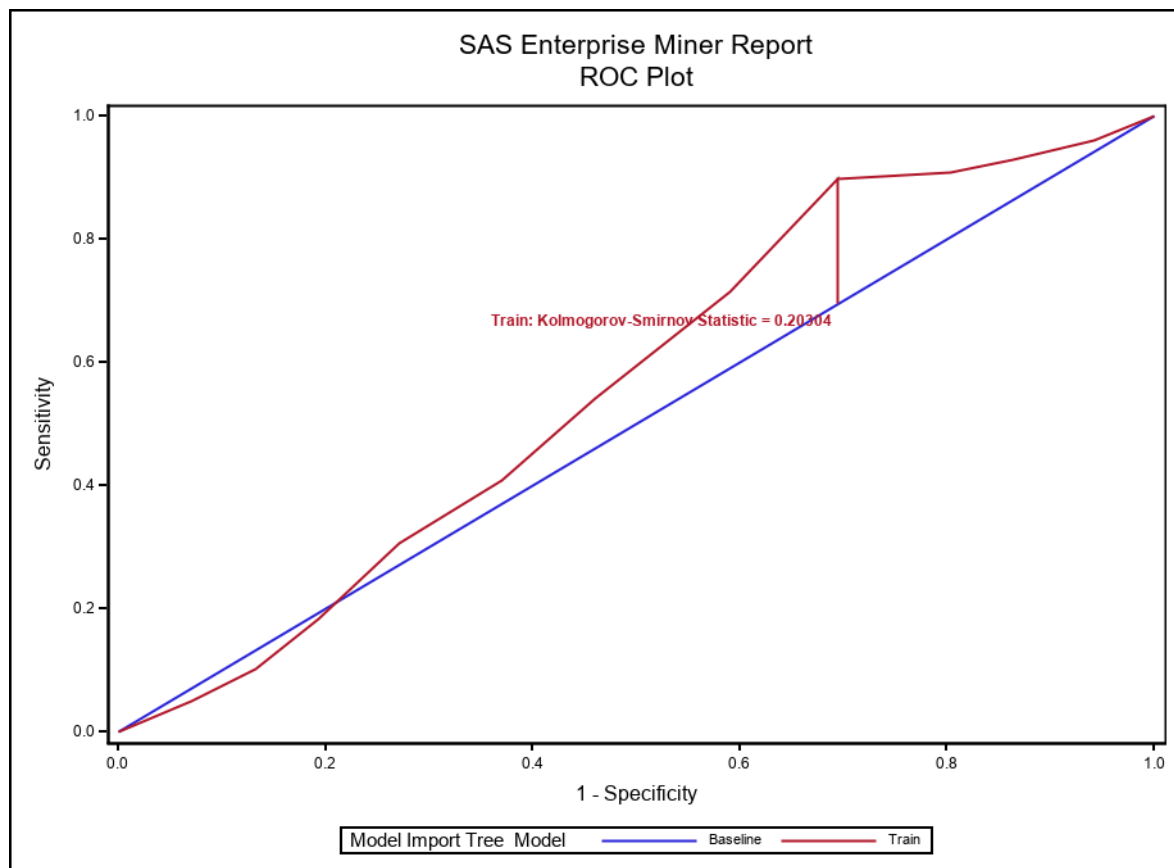


SAS Enterprise Miner Report
Cumulative Lift Chart



SAS Enterprise Miner Report
Model Gains Chart: Cumulative Captured Response Rate by Decile





Variable Attribute Importance and Crosstabulations

		Scorecard Points	Overall N	Overall %	reflux subgroup							
					Borderline_GERD		FH		RHS		True_GERD	
					N	%	N	%	N	%	N	%
body mass index (kg/m2)	1: LOW - 24.05	0.00	178.00	45.29	37.00	43.53	74.00	55.64	45.00	58.44	22.00	22.45
	2: 24.05 - HIGH	1000.00	215.00	54.71	48.00	56.47	59.00	44.36	32.00	41.56	76.00	77.55

Classification Matrix Target=reflux subgroup

	Data Role	
	TRAIN	
	Predicted	
	FH	TRUE_GERD
Target		
BORDERLINE_GERD	67.06	32.94
FH	72.93	27.07
RHS	79.22	20.78
TRUE_GERD	69.39	30.61

Model Fit Statistics

Statistic	Train	Validation
Average Squared Error	0.1840	.
Maximum Absolute Error	0.8846	.
Sum of Frequencies	393.0000	.
Root Average Square Error	0.4289	.
Sum of Square Errors	289.1722	.
Misclassification Rate	0.6768	.
Roc Index	0.5620	.
Gini Coefficient	0.1250	.

Statistic	Train	Validation
Kolmogorov-Smirnov Statistic	0.2030	.
Kolmogorov-Smirnov Probability Cutoff	0.1460	.
Lift at 10%	0.8416	.
Cumulative Lift at 10%	0.8064	.
Captured Response at 10%	4.2830	.
Cumulative % Captured Response at 10%	8.2076	.

Model Selection based on Train: Misclassification Rate

Selected Model	Model Node	Model Description	Target Label	Train: Lift
Y	MdlImp5	Model Import Tree	reflux subgroup	0.84161
	MdlImp14	Model Import GradBoostTunedFour	reflux subgroup	0.80204
	MdlImp12	Model Import GradBoostTunedTwo	reflux subgroup	1.00255
	MdlImp11	Model Import GradBoostTunedOne	reflux subgroup	1.20306
	MdlImp2	Model Import StepReg	reflux subgroup	0.60153
	MdlImp3	Model Import StepRegInt	reflux subgroup	0.60153
	MdlImp7	Model Import NeuralTwo	reflux subgroup	0.40102
	MdlImp18	Model Import AutoNeuralCascade2Inc	reflux subgroup	1.00255
	MdlImp13	Model Import GradBoostTunedThree	reflux subgroup	1.60408
	MdlImp6	Model Import NeuralOne	reflux subgroup	1.58095
	MdlImp	Model Import GradBoost	reflux subgroup	1.40357
	MdlImp20	Model Import AutoNeuralSingle2	reflux subgroup	1.60408
	MdlImp9	Model Import BayesNetTAN	reflux subgroup	0.40102
	MdlImp10	Model Import BayesNetBAN	reflux subgroup	1.20306
	MdlImp4	Model Import BayesNet	reflux subgroup	1.20306
	MdlImp8	Model Import BayesNetNaive	reflux subgroup	1.60408
	MdlImp19	Model Import AutoNeuralBlock	reflux subgroup	0.80204
	MdlImp21	Model Import AutoNeuralBlock2	reflux subgroup	1.00255
	MdlImp15	Model Import AutoNeuralSingle	reflux subgroup	0.80204
	MdlImp16	Model Import AutoNeuralSingle2Inc	reflux subgroup	1.00255
	MdlImp17	Model Import AutoNeuralBlock2Inc	reflux subgroup	0.80204

Project Information

Property	Value
Name	2_classification_difference
Diagram	classification_nominal
Path	C:\Users\u0027997\OneDrive - KU Leuven\proj-reflux-database\Analyses\SAS_analyses\2_classification_difference\2_classification_difference
Date Created	18/07/2022 17:46:34

End of Report