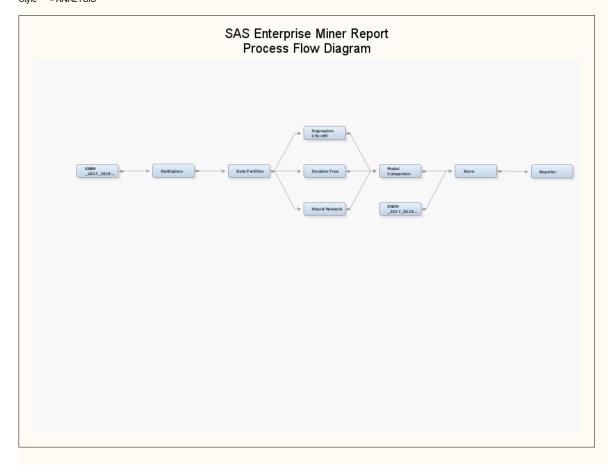
User = Leandro
Date = 14:07:12 September 03
Project = Predição da nota de matemática
Diagram = Sexo candidato

Start Node = Report Node label = Reporter Nodes = ALL Showall = Y

Format = PDF Style = ANALYSIS



Node=Reporter Summary

Node id = Report Node label = Reporter Meta path = Notes =

Node=Reporter Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Reporter		LiftChart	Υ		basicoutput	Υ	
Classification	Υ		Nodes	ALL	PATH	headersize	8	
CompareMdl	Υ		ShowAll	Υ	N	textfont	Arial	
CrossTabs	Υ		Style	ANALYSIS	DEFAULT	textsize	6	
FitStat	Υ		Summarization	Υ		titlesize	10	
Format	PDF		VarRanking	Υ				

Node=ENEM_2017_2019_AMOSTRA_10 Summary

Node id = Ids Node label = ENEM_2017_2019_AMOSTRA_10 Meta path = Ids Notes =

Leitura dos dados ENEM 2017-2019

Node=ENEM_2017_2019_AMOSTRA_10 Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	Leandro		NBytes	866989056	
ApplyIntervalLevelLowerLimit	Υ		Dsld	enemamostra		NCols	145	
ApplyMaxClassLevels	Υ		DsModifiedBy	Leandro		NObs	1020953	
ApplyMaxPercentMissing	Υ		DsModifyDate	1914661471.8		NewTable		
CMeta	WORK.M02SHSKA		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	DATA	VIEW
DBPassThrough	Υ		DsSampleSizeType			Role	RAW	TRAIN
Data	ENEM.ENEM_2017_2019_AMOSTRA_10		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Υ		SampleSizeObs	10000	
DataSource	enemamostra		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	ENEM		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Υ		MaxPercentMissing	50		Segment		
DsCreateDate	1914661471.8		MetaAdvisor	BASIC		Table	ENEM_2017_2019_AMOSTRA_10	

Node=ENEM_2017_2019_AMOSTRA_10 Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	ENEM_2017_2019_AMOSTRA_10	Date Created	01Jul2020:12:38:33	Data Size	866989056
Data Type	DATA	Date Modified	01Jul2020:12:38:33	Role	RAW
Data Label		Number Rows	1020953	Segment	
Engine	BASE	Number Columns	145	Data Library	ENEM

Node=ENEM_2017_2019_AMOSTRA_10 Variable Summary

		Frequency	
Role	Level	Count	Name
TARGET	NOMINAL	1	TP_SEXO
REJECTED	INTERVAL	27	ActualProportion AllocProportion CO_ESCOLA CO_MUNICIPIO_ESC CO_MUNICIPIO_NASCIMENTO CO_MUNICIPIO_PROVA CO_MUNICIPIO_RESIDENCIA CO_UF_ESC CO_UF_NASCIMENTO CO_UF_PROVA CO_UF_RESIDENCIA NOTA_MEDIA
REJECTED	NOMINAL	114	CO_PROVA_CH CO_PROVA_CN CO_PROVA_LC CO_PROVA_MT IN_ACESSO IN_AMPLIADA_18 IN_AMPLIADA_24 IN_APOIO_PERNA IN_AUTISMO IN_BAIXA_VĪSAO IN_BRAILLE IN_CADEIRA_ACOLCHOADA IN_CADEĪRA_CANHOTO IN_CEGUEĪRA
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP_COR_RACA

Node=StatExplore Summary

Node id = Stat Node label = StatExplore Meta path = Ids => Stat Notes =

Node=StatExplore Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	StatExplore		Correlation	Υ		NObs	ALL	1000000
BySegment	N	Υ	DropRejected	Υ		Pearson	Υ	
ChiSquare	Υ		HideVariable	Υ		Spearman	N	
ChiSquareInterval	N		IntervalDistribution	Υ		UseScore	N	
ChiSquareIntervalNBins	5		LevelSummary	Υ		UseTest	N	
ClassDistribution	Υ		MaximumVars	1000		UseValidate	N	

Node=StatExplore Variable Summary

Role		Frequency Count	Name
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP_COR_RACA

Node=StatExplore Interval Variables

															Scaled		
Data		Target				Non				Standard					Mean	Maximum	Leve
Role	Target	Level	Variable	Median	Missing	Missing	Minimum	Maximum	Mean	Deviation	Skewness	Kurtosis	Role	Label	Deviation	Deviation	lc
TRAIN	TP_SEXO	F	NU_NOTA_MT	485.2	0	598399	0	993.9	489.8811	134.4182	-1.18946	4.318448	INPUT	NU_NOTA_MT	-0.033465	0.047392	
TRAIN	TP_SEXO	М	NU_NOTA_MT	531.4	0	422554	0	994.4	530.8631	150.4993	-1.15881	3.432861	INPUT	NU_NOTA_MT	0.047392	0.047392	
TRAIN	TP_SEXO	F	NU_NOTA_CH	527.9	0	598399	0	828.3	510.75	127.5515	-2.13221	6.565656	INPUT	NU_NOTA_CH	-0.011593	0.016417	
TRAIN	TP_SEXO	М	NU_NOTA_CH	548.5	0	422554	0	844.7	525.2237	133.0162	-2.16306	6.382119	INPUT	NU_NOTA_CH	0.016417	0.016417	

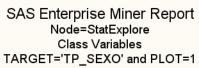
Node=StatExplore Class Variables

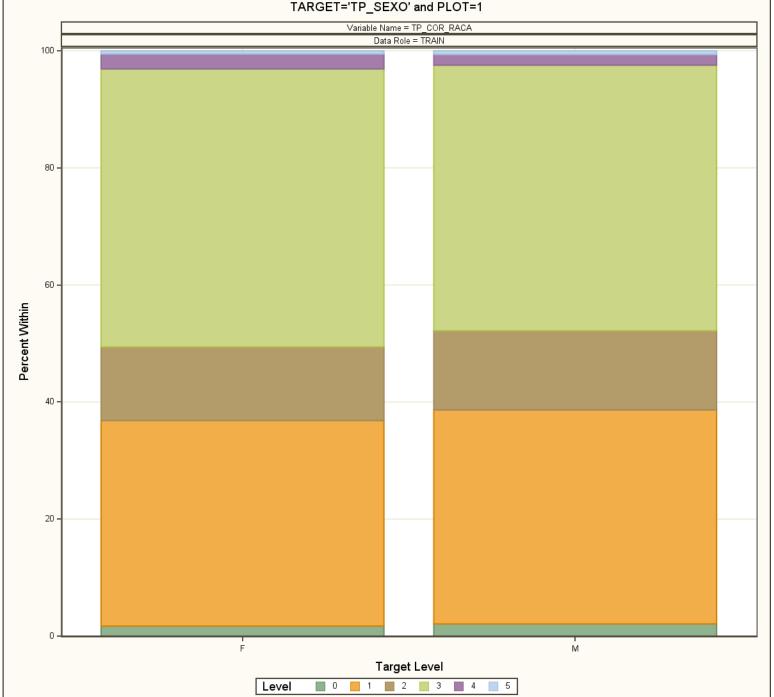
Data		Target	Variable			Frequency		Percent	Level				
Role	Target	Level	Name	Level	CODE	Count	Туре	Within	Index	Role	Label	Percent	Plot
TRAIN	TP_SEXO	F	TP_COR_RACA	0	5	10320	С	1.7246	1	INPUT	TP_COR_RACA	0.01011	1
TRAIN	TP_SEXO	М	TP_COR_RACA	0	5	8828	С	2.0892	1	INPUT	TP_COR_RACA	0.00865	1
TRAIN	TP_SEXO	F	TP_COR_RACA	1	1	210177	С	35.1232	2	INPUT	TP_COR_RACA	0.20586	1
TRAIN	TP_SEXO	М	TP_COR_RACA	1	1	154483	С	36.5594	2	INPUT	TP_COR_RACA	0.15131	1
TRAIN	TP_SEXO	F	TP_COR_RACA	2	3	75354	С	12.5926	3	INPUT	TP_COR_RACA	0.07381	1
TRAIN	TP_SEXO	M	TP_COR_RACA	2	2	57275	С	13.5545	3	INPUT	TP_COR_RACA	0.05610	1
TRAIN	TP_SEXO	F	TP_COR_RACA	3	0	284036	С	47.4660	4	INPUT	TP_COR_RACA	0.27821	1
TRAIN	TP_SEXO	М	TP_COR_RACA	3	0	191649	С	45.3549	4	INPUT	TP_COR_RACA	0.18772	1
TRAIN	TP_SEXO	F	TP_COR_RACA	4	2	15217	С	2.5430	5	INPUT	TP_COR_RACA	0.01490	1
TRAIN	TP_SEXO	M	TP_COR_RACA	4	3	7752	С	1.8346	5	INPUT	TP_COR_RACA	0.00759	1
TRAIN	TP_SEXO	F	TP_COR_RACA	5	4	3295	С	0.5506	6	INPUT	TP_COR_RACA	0.00323	1
TRAIN	TP_SEXO	М	TP_COR_RACA	5	4	2567	С	0.6075	6	INPUT	TP_COR_RACA	0.00251	1

Node=StatExplore Cell Chi-Squares

Data		Segment	Segment				Input: Formatted	Frequency	Target: Numeric	Input: Numeric		Log Chi		
Role	Segment	ld	Name:Value	Target	Input	Value	Value	Count			Chi-Square	Square	Role	Label
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	0	10320			72.653	4.28570	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	1	210177			59.190	4.08075	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	2	75354			73.005	4.29053	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	3	284036			98.048	4.58545	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	4	15217			228.642	5.43216	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	F	5	3295			5.772	1.75301	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	0	8828			102.888	4.63364	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	1	154483			83.822	4.42870	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	2	57275			103.386	4.63847	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	3	191649			138.850	4.93339	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	4	7752			323.792	5.78010	INPUT	TP_COR_RACA
TRAIN			_OVERALL_	TP_SEXO	TP_COR_RACA	М	5	2567			8.174	2.10095	INPUT	TP_COR_RACA

Target	Variable	Importance		Analysis Variable		plot
TP_SEXO	NU_NOTA_MT	1	0.019489	1	NU_NOTA_MT	
TP_SEXO	NU_NOTA_CH	2	0.006758	1	NU_NOTA_CH	
TP_SEXO	TP_COR_RACA	3	0.000811	1	TP_COR_RACA	





Node=Data Partition Summary

Node id = Part Node label = Data Partition Meta path = Ids => Stat => Part Notes =

Node=Data Partition Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Partition		Method	RANDOM	DEFAULT	TestPct	30	
ClassDistribution	Υ		OutputType	DATA		TrainPct	60	40
IntervalDistribution	Υ		RandomSeed	12345		ValidatePct	10	30

Node=Data Partition Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	TP_SEXO
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP_COR_RACA

Node=Data Partition Class Variables

		Numeric	Formatted	Frequency		
Data	Variable	Value	Value	Count	Percent	Label
DATA	TP_SEXO		F	598399	58.6118	
DATA	TP_SEXO		М	422554	41.3882	
TEST	TP_SEXO		F	179507	58.6076	
TEST	TP_SEXO		М	126779	41.3924	
TRAIN	TP_SEXO		F	358971	58.6006	
TRAIN	TP_SEXO		М	253601	41.3994	
VALIDATE	TP_SEXO		F	59921	58.6914	
VALIDATE	TP_SEXO		М	42174	41.3086	

Node=Decision Tree Summary

Node id = Tree Node label = Decision Tree Meta path = Ids => Stat => Part => Tree Notes =

Node=Decision Tree Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Υ		Pred	N	
AVG	Υ		KassApply	BEFORE		Predict	Υ	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Υ		RASE	N	
cv	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	6		SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	Υ	
ClassColorBy	PERCENTCORRECT		NSubtree	1		ShowValid	Υ	
Count	Υ		NodeRole	SEGMENT		SigLevel	0.2	
CreateSample	DEFAULT		NodeSample	20000		SplitPrecision	4	
Criterion	DEFAULT		NominalCriterion	PROBCHISQ		Splitsize		
Depth	Υ		Nrules	5		Subtree	ASSESSMENT	
Dummy	N		Nsurrs	0		Target	ALL	
Exhaustive	5000		NumInputs	1		ToolType	MODEL	
Freeze	N		NumSingleImp	5		TrainMode	BATCH	
ImportModel	N		ObsImportance	N		UseDecision	N	
ImportedTreeData			OrdinalCriterion	ENTROPY		UseMultipleTarget	N	
Inputs	N		PercentCorrect	N		UsePriors	N	
IntColorBy	AVG		Performance	DISK		UseVarOnce	N	
IntervalCriterion	PROBF		Precision	4		VarSelection	Υ	

Node=Decision Tree Variable Summary

		Frequency	
Role	Level	Count	Name
TARGET	NOMINAL	1	TP_SEXO
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP_COR_RACA
ID	INTERVAL	1	_dataobs_

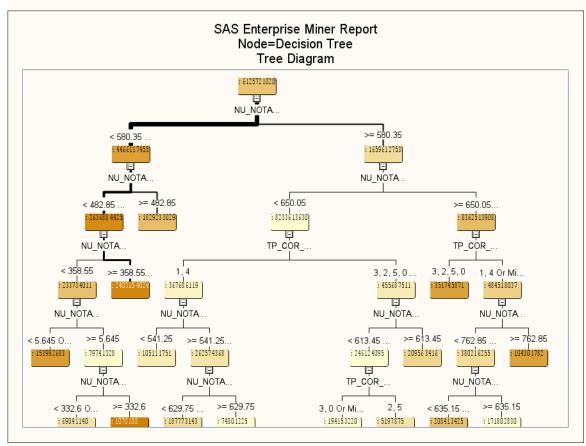
Node=Decision Tree Model Fit Statistics

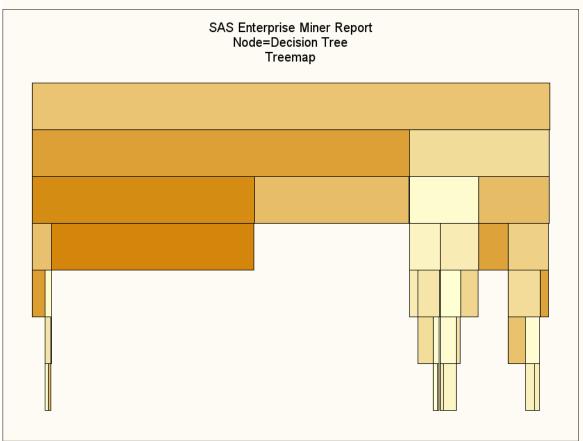
Target=TP_SEXO Target Label=' '

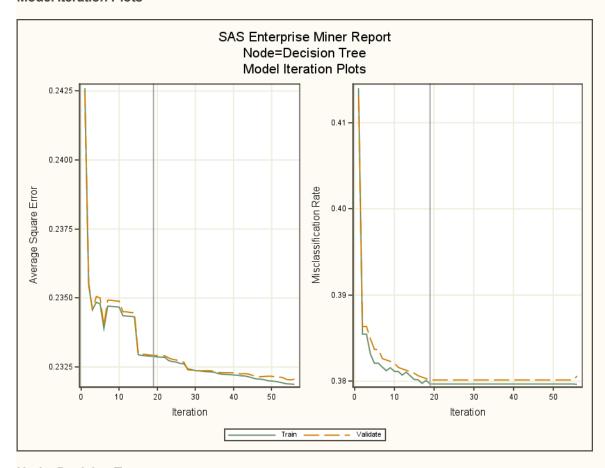
Label of Statistic	Train	Validation	Test
Sum of Frequencies	612572.00	102095.00	306286.00
Misclassification Rate	0.38	0.38	0.38
Maximum Absolute Error	0.68	0.68	0.68
Sum of Squared Errors	285313.81	47561.23	142743.22
Average Squared Error	0.23	0.23	0.23
Root Average Squared Error	0.48	0.48	0.48
Divisor for ASE	1225144.00	204190.00	612572.00
Total Degrees of Freedom	612572.00		

Node=Decision Tree Variable Importance

Variable		Number of Splitting			Ratio of Validation to Training
Name	Label	Rules	Importance	Importance	Importance
NU_NOTA_MT		10	1.0000	1.0000	1.0000
TP_COR_RACA		3	0.1590	0.1583	0.9951
NU_NOTA_CH		5	0.1471	0.1635	1.1121







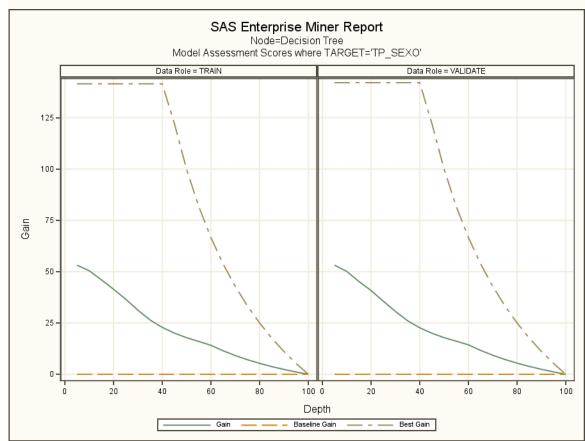
Node=Decision Tree Event Classification

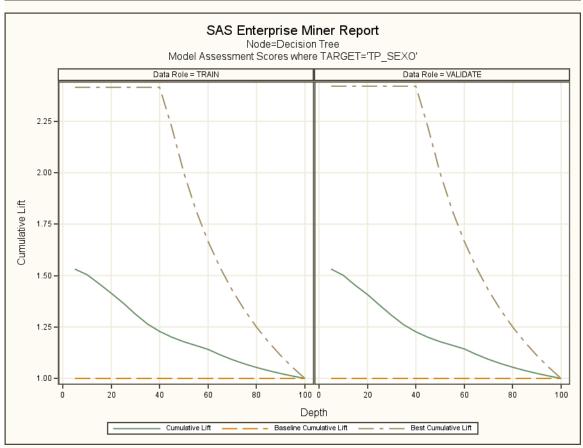
Target Variable=TP_SEXO Data Role=TRAIN

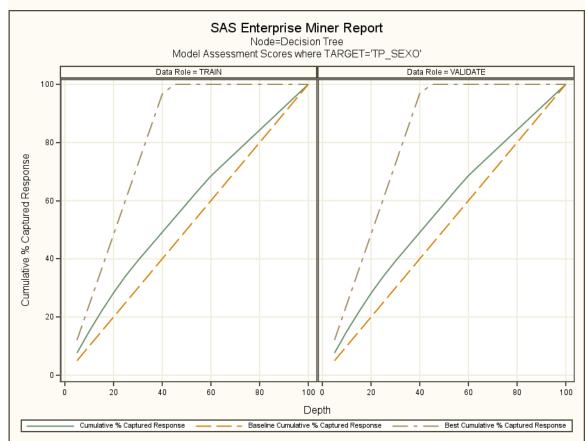
Target	Outcome		Frequency Count	Percent
F	F	Correct	305775	49.9166
М	F	Incorrect	179396	29.2857
F	М	Incorrect	53196	8.6840
М	М	Correct	74205	12.1137

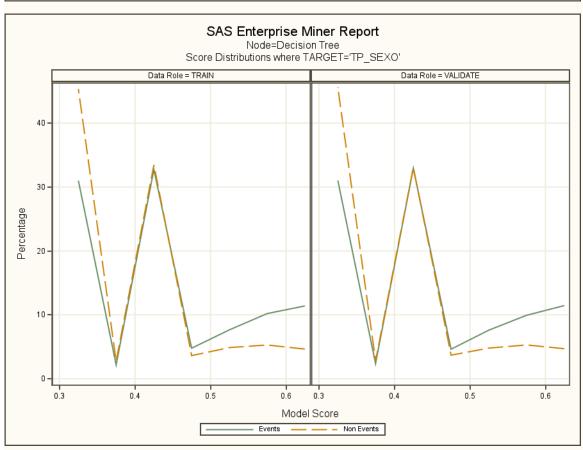
Target Variable=TP_SEXO Data Role=VALIDATE

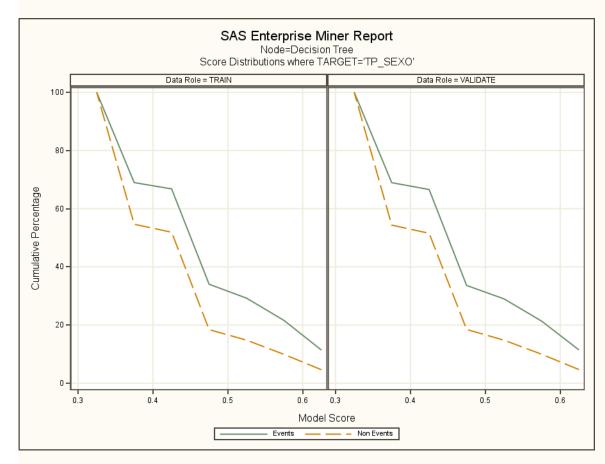
Target	Outcome		Frequency Count	Percent
F	F	Correct	51050	50.0024
М	F	Incorrect	29941	29.3266
F	М	Incorrect	8871	8.6890
М	М	Correct	12233	11.9820











Node=Decision Tree Score Distributions

Target Variable=TP_SEXO Data Role=TRAIN

					Cumulative
					-
Posterior	Number		Percentage	Cumulative	Percentage
Probability	of	Percentage	of	Percentage	of
Range	Events	of Events	Nonevents	of Events	Nonevents
0.60-0.65	28914	11.4014	4.6494	11.401	4.649
0.55-0.60	25876	10.2034	5.2871	21.605	9.936
0.50-0.55	19415	7.6557	4.8826	29.261	14.819
0.45-0.50	12140	4.7870	3.6248	34.048	18.444
0.40-0.45	83083	32.7613	33.4712	66.809	51.915
0.35-0.40	5523	2.1778	2.7512	68.987	54.666
0.30-0.35	78650	31.0133	45.3337	100.000	100.000

Target Variable=TP_SEXO Data Role=VALIDATE

					Cumulative
Posterior	Number		Percentage	Cumulative	Percentage
Probability		Percentage	of	Percentage	of
Range	Events	of Events	Nonevents	of Events	Nonevents
0.60-0.65	4832	11.4573	4.7079	11.457	4.708
0.55-0.60	4191	9.9374	5.2936	21.395	10.002
0.50-0.55	3210	7.6113	4.8030	29.006	14.804
0.45-0.50	1953	4.6308	3.6932	33.637	18.498
0.40-0.45	13900	32.9587	33.0535	66.596	51.551
0.35-0.40	996	2.3616	2.8154	68.957	54.367
0.30-0.35	13092	31.0428	45.6334	100.000	100.000

Node=Regression CN->MT Summary

Node id = Reg Node label = Regression CN->MT Meta path = Ids => Stat => Part => Reg Notes =

Node=Regression CN->MT Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Regression		Force	0		PolynomialDegree	2	
AbsConvValue	-1.34078E154	-7.237006E75	GConvTimes	1		PrintDesignMatrix	N	
AbsFTime	1		GConvValue	1E-6		Rule	NONE	
AbsFValue	0		Hierarchy	CLASS		SASSPDS	N	
AbsGTime	1		InputCoding	DEVIATION		SelectionCriterion	DEFAULT	
AbsGValue	0.00001		Interactions			SelectionDefault	Υ	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Υ		Simple	N	
CIParm	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Υ		MaxFunctionCalls			SIStay	0.05	
CorB	N		MaxIterations			Start	0	
CovB	N		MaxStep			StepOutput	N	
Covout	N		MinResourceUse	N		Stop	0	
Details	N		ModelDefaults	Υ		SuppressIntercept	N	
Error	NORMAL	LOGISTIC	ModelSelection	NONE		SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression CN->MT Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	TP_SEXO
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP COR RACA

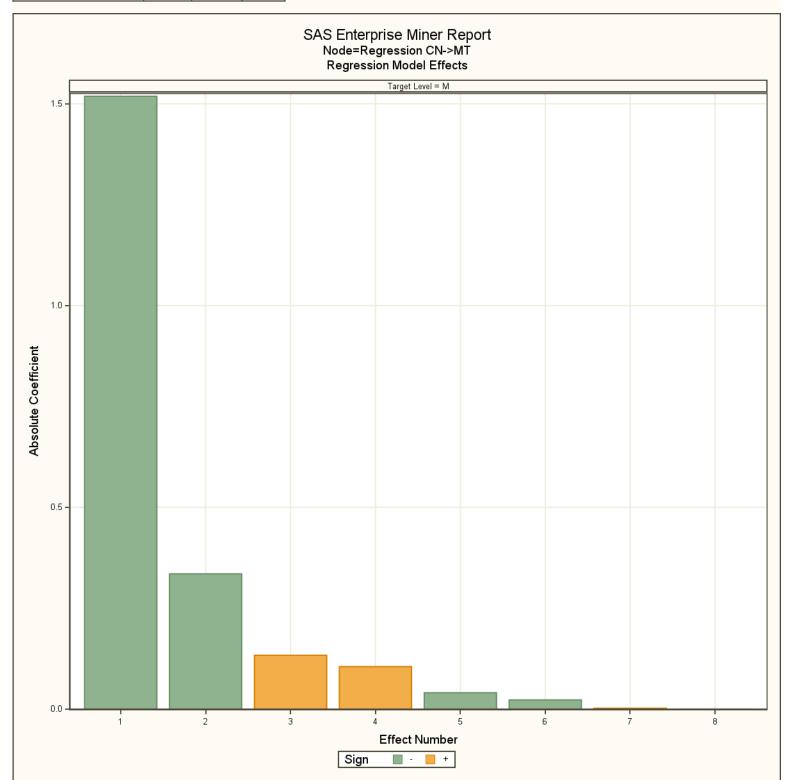
Node=Regression CN->MT Model Fit Statistics

Target=TP_SEXO Target Label=' '

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	817320.05		
Average Squared Error	0.24	0.24	0.24
Average Error Function	0.67	0.67	0.67
Degrees of Freedom for Error	612564.00		
Model Degrees of Freedom	8.00		
Total Degrees of Freedom	612572.00		
Divisor for ASE	1225144.00	204190.00	612572.00
Error Function	817304.05	136216.27	408694.41
Final Prediction Error	0.24		
Maximum Absolute Error	0.86	0.86	0.86
Mean Square Error	0.24	0.24	0.24
Sum of Frequencies	612572.00	102095.00	306286.00
Number of Estimate Weights	8.00		
Root Average Sum of Squares	0.49	0.49	0.49
Root Final Prediction Error	0.49		
Root Mean Squared Error	0.49	0.49	0.49
Schwarz's Bayesian Criterion	817410.66		
Sum of Squared Errors	289904.71	48311.94	144960.16

Target=TP_SEXO Target Label=' '

Label of Statistic	Train	Validation	Test
Sum of Case Weights Times Freq	1225144.00	204190.00	612572.00
Misclassification Rate	0.39	0.39	0.39



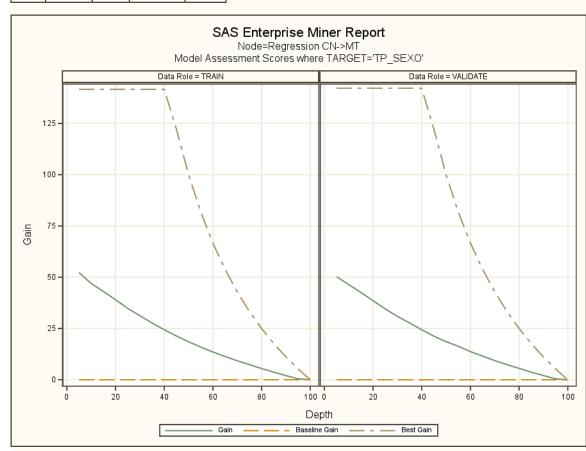
Node=Regression CN->MT Event Classification

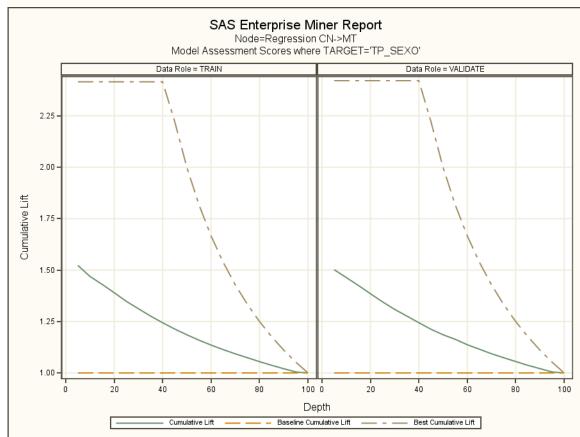
Target Variable=TP_SEXO Data Role=TRAIN

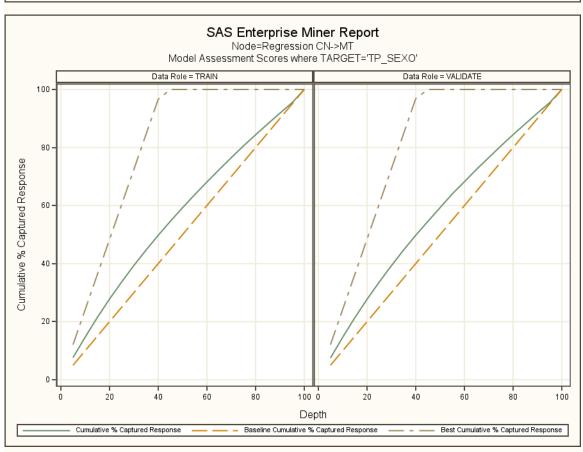
Target	Outcome		Frequency Count	Percent
F	F	Correct	331728	54.1533
М	F	Incorrect	212154	34.6333
F	М	Incorrect	27243	4.4473
М	М	Correct	41447	6.7661

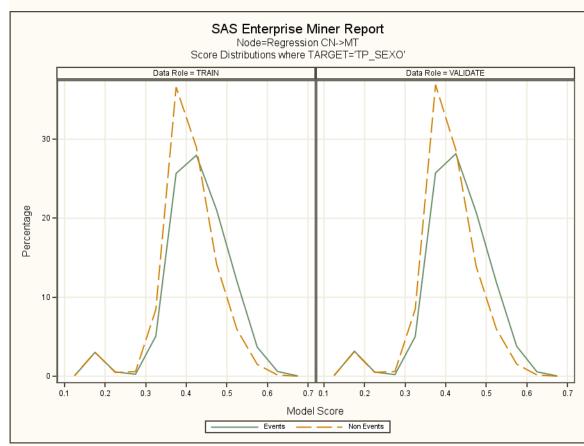
Target Variable=TP_SEXO Data Role=VALIDATE

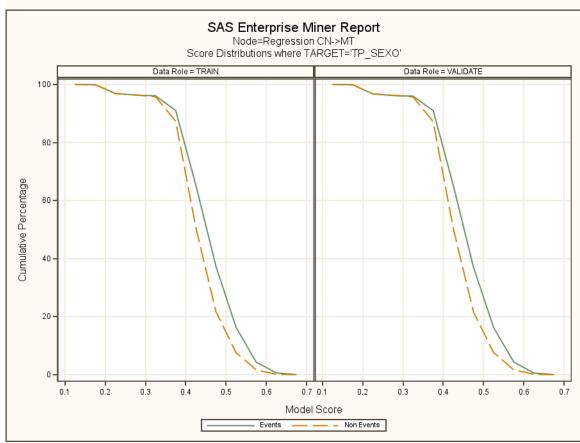
			Frequency	
Target	Outcome	State	Count	Percent
F	F	Correct	55315	54.1799
М	F	Incorrect	35306	34.5815
F	М	Incorrect	4606	4.5115
М	М	Correct	6868	6.7271











Node=Regression CN->MT Score Distributions

Target Variable=TP_SEXO Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.65-0.70	110	0.0434	0.0053	0.043	0.005
0.60-0.65	1539	0.6069	0.1596	0.650	0.165
0.55-0.60	9348	3.6861	1.5071	4.336	1.672
0.50-0.55	30450	12.0071	5.9172	16.343	7.589
0.45-0.50	53320	21.0252	14.1432	37.369	21.732
0.40-0.45	70939	27.9727	28.9929	65.341	50.725
0.35-0.40	65120	25.6781	36.6041	91.019	87.329
0.30-0.35	12871	5.0753	8.4447	96.095	95.774
0.25-0.30	655	0.2583	0.5917	96.353	96.366
0.20-0.25	1404	0.5536	0.4883	96.907	96.854
0.15-0.20	7662	3.0213	3.0490	99.928	99.903
0.10-0.15	183	0.0722	0.0969	100.000	100.000

Target Variable=TP_SEXO Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Percentage	Cumulative Percentage of Nonevents
0.65-0.70	17	0.0403	0.0050	0.040	0.005
0.60-0.65	238	0.5643	0.1686	0.605	0.174
0.55-0.60	1601	3.7962	1.5404	4.401	1.714
0.50-0.55	5012	11.8841	5.9729	16.285	7.687
0.45-0.50	8764	20.7806	13.9417	37.065	21.628
0.40-0.45	11877	28.1619	28.6544	65.227	50.283
0.35-0.40	10856	25.7410	36.9053	90.968	87.188
0.30-0.35	2119	5.0244	8.4979	95.993	95.686
0.25-0.30	90	0.2134	0.6058	96.206	96.292
0.20-0.25	226	0.5359	0.5007	96.742	96.792
0.15-0.20	1342	3.1821	3.0991	99.924	99.892
0.10-0.15	32	0.0759	0.1085	100.000	100.000

Node=Neural Network Summary

Node id = Neural Node label = Neural Network Meta path = Ids => Stat => Part => Neural Notes =

Node=Neural Network Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	3		Prelim	Υ	
AbsConvValue	-1.34078E154	-7.237006E75	HiddenActivation	DEFAULT		PrelimMaxTime	1 HOUR	
AbsFTime	1		HiddenBias	Υ		PrelimMaxiter	10	
AbsFValue	0		HiddenCombFunction	DEFAULT		PrelimOutest		
AbsGTime	1		HiddenUnits	N		PreliminaryRuns	5	
AbsGValue	0.00001		InitialDs			RandDist	NORMAL	
AbsXTime	1		InitialSeed	12345		RandLoc	0	
AbsXValue	1E-8		InputStandardization	STD		RandScale	0.1	
Accelerate	1.2		Learn	0.1		Residuals	Υ	
AddHidden	Υ		MaxLearn	50		Standardizations	N	
CodefileNoRes			MaxMomentum	1.75		SuppressOutput	N	
CodefileRes			Maxiter	50		TargetActivation	DEFAULT	
ConvDefaults	Υ		Maxtime	4 HOURS		TargetBias	Υ	
Decelerate	0.5		MinLearn	0.00001		TargetCombFunction	DEFAULT	
DirectConnection	N		ModelSelectionCriterion	PROFIT/LOSS		TargetError	DEFAULT	
FConvTime	1		Momentum	0		Tilt	0	
FConvValue	0		NetworkArchitecture	MLP		TrainCode		
GConvTime	1		Outest			TrainingTechnique	DEFAULT	
GConvValue	1E-6		Outfit			UseEstimates	N	

Node=Neural Network Variable Summary

		Frequency	
Role	Level	Count	Name
TARGET	NOMINAL	1	TP_SEXO
INPUT	INTERVAL	2	NU_NOTA_CH NU_NOTA_MT
INPUT	NOMINAL	1	TP_COR_RACA

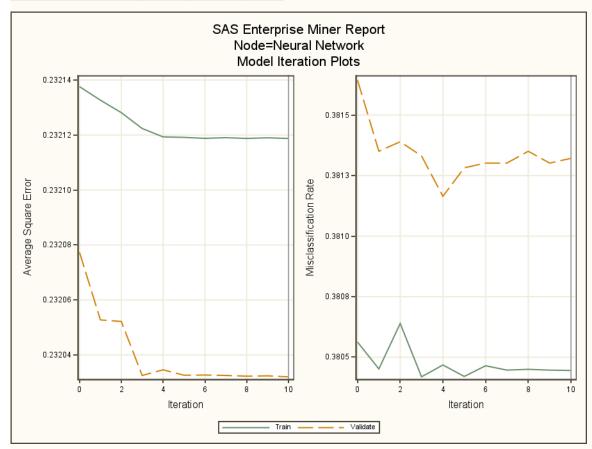
Node=Neural Network Model Fit Statistics

Target=TP_SEXO Target Label=' '

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	612572.00		
Degrees of Freedom for Error	612544.00		
Model Degrees of Freedom	28.00		
Number of Estimated Weights	28.00		
Akaike's Information Criterion	804568.00		
Schwarz's Bayesian Criterion	804885.11		
Average Squared Error	0.23	0.23	0.23
Maximum Absolute Error	0.93	0.91	0.94
Divisor for ASE	1225144.00	204190.00	612572.00
Sum of Frequencies	612572.00	102095.00	306286.00
Root Average Squared Error	0.48	0.48	0.48
Sum of Squared Errors	284378.90	47378.62	142181.65
Sum of Case Weights Times Freq	1225144.00	204190.00	612572.00
Final Prediction Error	0.23		
Mean Squared Error	0.23	0.23	0.23
Root Final Prediction Error	0.48		
Root Mean Squared Error	0.48	0.48	0.48
Average Error Function	0.66	0.66	0.66

Target=TP_SEXO Target Label=' '

Label of Statistic	Train	Validation	Test
Error Function	804512.00	134042.63	402234.24
Misclassification Rate	0.38	0.38	0.38
Number of Wrong Classifications	233050.00	38931.00	116741.00



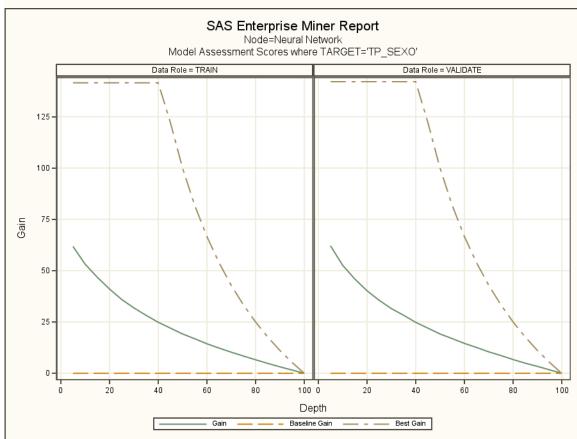
Node=Neural Network Event Classification

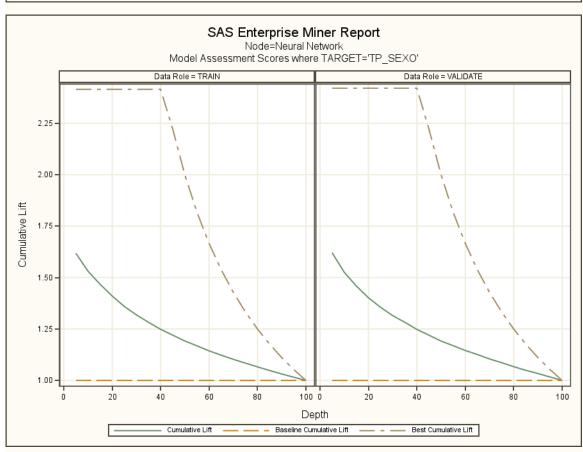
Target Variable=TP_SEXO Data Role=TRAIN

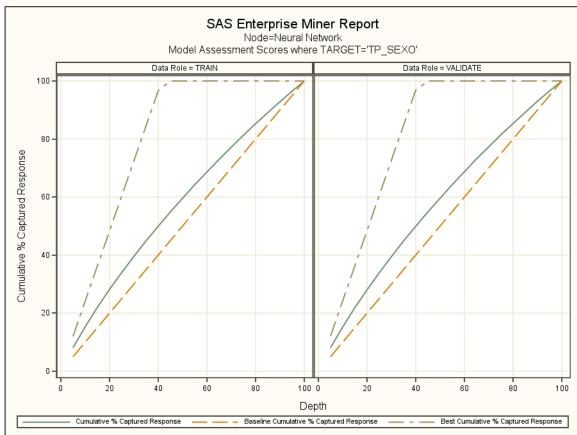
Target	Outcome		Frequency Count	Percent
F	F	Correct	307117	50.1357
М	F	Incorrect	181196	29.5795
F	М	Incorrect	51854	8.4650
М	М	Correct	72405	11.8198

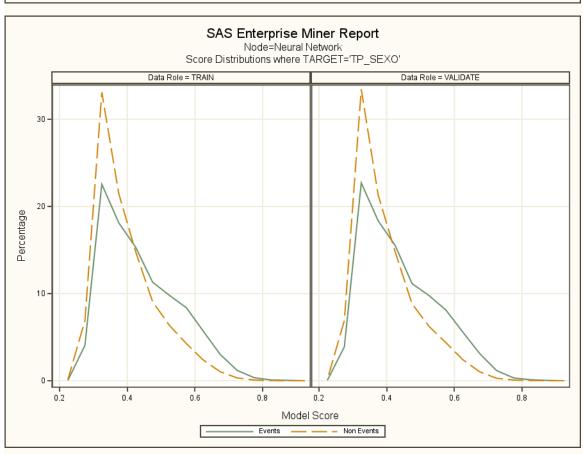
Target Variable=TP_SEXO Data Role=VALIDATE

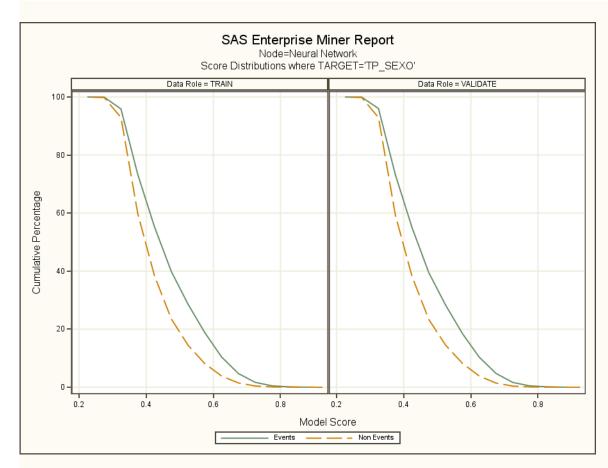
Target	Outcome		Frequency Count	Percent
F	F	Correct	51235	50.1837
М	F	Incorrect	30245	29.6244
F	M	Incorrect	8686	8.5078
М	М	Correct	11929	11.6842











Node=Neural Network Score Distributions

Target Variable=TP_SEXO Data Role=TRAIN

					Cumulative
Posterior	Number		Percentage	Cumulative	Percentage
Probability	of	Percentage	of	Percentage	of
,					
Range	Events	of Events	Nonevents	of Events	Nonevents
0.90-0.95	24	0.0095	0.0011	0.009	0.001
0.85-0.90	116	0.0457	0.0117	0.055	0.013
0.80-0.85	222	0.0875	0.0259	0.143	0.039
0.75-0.80	905	0.3569	0.0822	0.500	0.121
0.70-0.75	3014	1.1885	0.3265	1.688	0.447
0.65-0.70	7637	3.0114	1.0304	4.700	1.478
0.60-0.65	14400	5.6782	2.3718	10.378	3.850
0.55-0.60	21240	8.3754	4.2563	18.753	8.106
0.50-0.55	24847	9.7977	6.3392	28.551	14.445
0.45-0.50	28696	11.3154	9.0737	39.866	23.519
0.40-0.45	38866	15.3256	14.8020	55.192	38.321
0.35-0.40	45973	18.1281	21.4859	73.320	59.807
0.30-0.35	57200	22.5551	33.1080	95.875	92.915
0.25-0.30	10289	4.0572	6.9061	99.932	99.821
0.20-0.25	172	0.0678	0.1791	100.000	100.000

Target Variable=TP_SEXO Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Percentage	Cumulative Percentage of Nonevents
0.90-0.95	2	0.0047	0.0033	0.005	0.003
0.85-0.90	17	0.0403	0.0167	0.045	0.020
0.80-0.85	49	0.1162	0.0234	0.161	0.043
0.75-0.80	141	0.3343	0.0851	0.496	0.129
0.70-0.75	492	1.1666	0.2870	1.662	0.416
0.65-0.70	1315	3.1180	1.0280	4.780	1.444
0.60-0.65	2360	5.5959	2.4249	10.376	3.868
0.55-0.60	3426	8.1235	4.3774	18.500	8.246
0.50-0.55	4127	9.7856	6.2499	28.285	14.496

Target Variable=TP_SEXO Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Percentage	Cumulative Percentage of Nonevents
0.45-0.50	4705	11.1562	8.8366	39.441	23.332
0.40-0.45	6555	15.5428	14.8112	54.984	38.144
0.35-0.40	7740	18.3525	21.3164	73.337	59.460
0.30-0.35	9579	22.7130	33.4607	96.050	92.921
0.25-0.30	1641	3.8910	6.9041	99.941	99.825
0.20-0.25	25	0.0593	0.1752	100.000	100.000

Node=Model Comparison Summary

Node id = MdlComp Node label = Model Comparison Meta path = lds => Stat => Part => Neural => MdlComp Notes =

Node=Model Comparison Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NumberOfReportedLevels	1E-6		SelectionData	DEFAULT	
AssessAllTargetLevels	N		NumberofBins	20		SelectionDepth	10	
DecileBin	20		ProfitEpsilon	1E-6		SelectionTable	TRAIN	TABLE
HPCriteria	DEFAULT		RecomputeAssess	N		StatisticUsed	_AUR_	
LiftEpsilon	1E-6		RocChart	Υ		TargetLabel		
ModelCriteria	Train: Roc Index		RocEpsilon	0.01		TargetName	TP_SEXO	
ModelDescription	Neural Network		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
Modelld	Neural		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Υ		SelectionCriteria	_AUR_	DEFAULT			

Node=Model Comparison Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	TP SEXO

Node=Model Comparison Fit Statistics Table

						Selection			
						Criterion:	Train:		
						Train:	Average	Train:	Train:
Selected	Predecessor	Model		Target	Target	Roc	Squared	Misclassification	Kolmogorov-Smirnov
Model	Node	Node	Model Description	Variable	Label	Index	Error	Rate	Statistic
Υ	Neural	Neural	Neural Network	TP_SEXO		0.615	0.23212	0.38045	0.170
	Tree	Tree	Decision Tree	TP_SEXO		0.607	0.23288	0.37970	0.161
	Reg	Reg	Regression CN->MT	TP_SEXO		0.606	0.23663	0.39081	0.167

						Selection			
						Criterion:	Valid:		
						Train:	Average	Valid:	Valid:
Selected	Predecessor	Model		Target	Target	Roc	Squared	Misclassification	Kolmogorov-Smirnov
Model	Node	Node	Model Description	Variable	Label	Index	Error	Rate	Statistic
Υ	Neural	Neural	Neural Network	TP_SEXO		0.615	0.23203	0.38132	0.169
	Tree	Tree	Decision Tree	TP_SEXO		0.607	0.23293	0.38016	0.157
	Reg	Reg	Regression CN->MT	TP_SEXO		0.606	0.23660	0.39093	0.166

Node=Model Comparison Model Fit Comparison

Target Variable=TP_SEXO Data Role=Test

Target Label	Statistic	Neural	Tree	Reg
Labor		0.17	0.16	
	Test: Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Test: Average Squared Error	0.23	0.23	0.24
	Test: Roc Index	0.62	0.61	0.61
	Test: Average Error Function	0.66		0.67
	Test: Bin-Based Two-Way Kolmogorov-Smirnov Probability Cutoff	0.42	0.43	0.43
	Test: Cumulative Percent Captured Response	15.23	14.95	14.65

Target Variable=TP_SEXO Data Role=Test

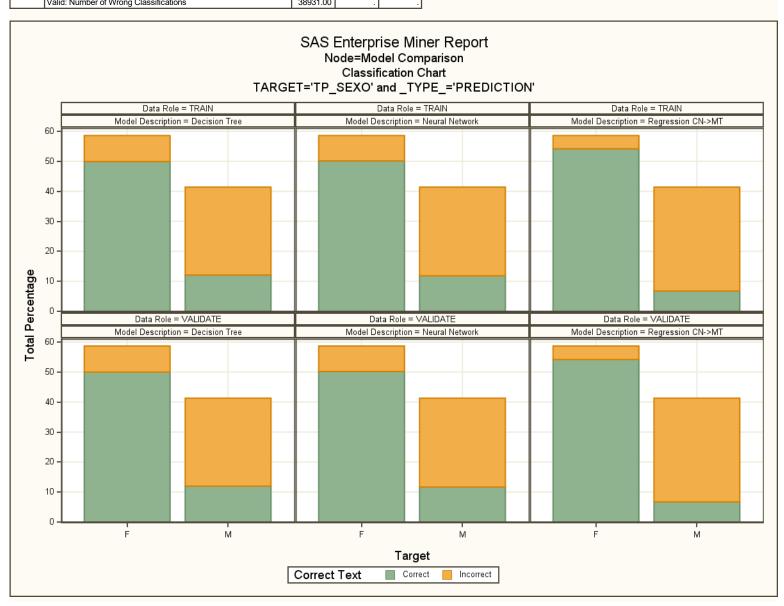
Target Label	Statistic	Neural	Tree	Reg
	Test: Percent Captured Response	7.15	7.38	7.07
	Test: Divisor for TASE	612572.00	612572.00	612572.00
	Test: Error Function	402234.24		408694.41
	Test: Gain	52.32	49.47	46.53
	Test: Gini Coefficient	0.23	0.21	0.21
	Test: Bin-Based Two-Way Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Test: Kolmogorov-Smirnov Probability Cutoff	0.41	0.41	0.43
	Test: Cumulative Lift	1.52	1.49	1.47
	Test: Lift	1.43	1.48	1.41
	Test: Maximum Absolute Error	0.94	0.68	0.86
	Test: Misclassification Rate	0.38	0.38	0.39
	Test: Lower 95% Conf. Limit for TMISC	Ι.		0.39
	Test: Upper 95% Conf. Limit for TMISC	Ι.		0.39
	Test: Mean Squared Error	0.23		0.24
	Test: Sum of Frequencies	306286.00	306286.00	306286.00
	Test: Root Average Squared Error	0.48	0.48	0.49
	Test: Cumulative Percent Response	63.05	61.87	60.65
	Test: Percent Response	59.17	61.08	58.53
	Test: Root Mean Squared Error	0.48		0.49
	Test: Sum of Squared Errors	142181.65	142743.22	144960.16
	Test: Sum of Case Weights Times Freq	612572.00	612572.00	612572.00
	Test: Number of Wrong Classifications	116741.00		

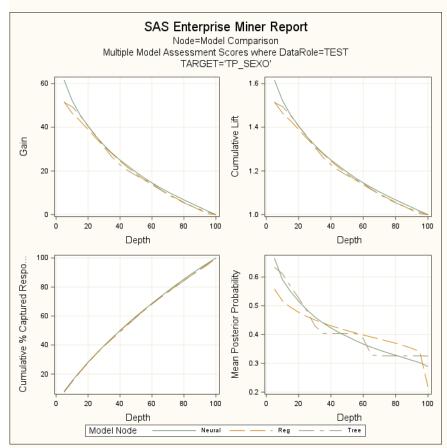
Target Variable=TP_SEXO Data Role=Train

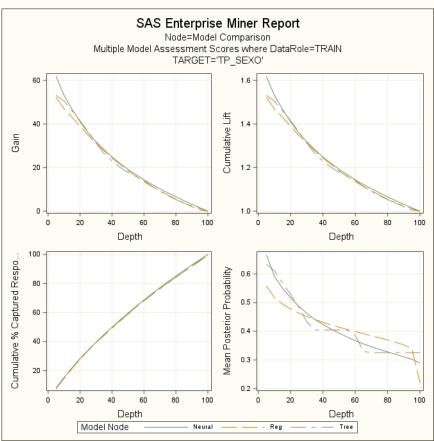
Target Label	Statistic	Neural	Tree	Reg
	Train: Bin-Based Two-Way Kolmogorov-Smirnov Probability Cutoff	0.42	0.43	0.43
	Train: Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Train: Akaike's Information Criterion	804568.00		817320.05
	Train: Average Squared Error	0.23	0.23	0.24
	Train: Roc Index	0.62	0.61	0.61
	Train: Average Error Function	0.66		0.67
	Train: Cumulative Percent Captured Response	15.31	15.05	14.69
	Train: Percent Captured Response	7.22	7.39	7.08
	Selection Criterion: Train: Roc Index	0.62	0.61	0.61
	Train: Degrees of Freedom for Error	612544.00		612564.00
	Train: Model Degrees of Freedom	28.00		8.00
	Train: Total Degrees of Freedom	612572.00	612572.00	612572.00
	Train: Divisor for ASE	1225144.00	1225144.00	1225144.00
	Train: Error Function	804512.00		817304.05
	Train: Final Prediction Error	0.23		0.24
	Train: Gain	53.14	50.47	46.93
	Train: Gini Coefficient	0.23	0.21	0.21
	Train: Bin-Based Two-Way Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Train: Kolmogorov-Smirnov Probability Cutoff	0.41	0.41	0.43
	Train: Cumulative Lift	1.53	1.50	1.47
	Train: Lift	1.44	1.48	1.42
	Train: Maximum Absolute Error	0.93	0.68	0.86
	Train: Misclassification Rate	0.38	0.38	0.39
	Train: Mean Squared Error	0.23		0.24
	Train: Sum of Frequencies	612572.00	612572.00	612572.00
	Train: Number of Estimated Weights	28.00		8.00
	Train: Root Average Squared Error	0.48	0.48	0.49
	Train: Cumulative Percent Response	63.40	62.29	60.83
	Train: Percent Response	59.81	61.18	58.62
	Train: Root Final Prediction Error	0.48		0.49
	Train: Root Mean Squared Error	0.48		0.49
	Train: Schwarz's Bayesian Criterion	804885.11		817410.66
	Train: Sum of Squared Errors	284378.90	285313.81	289904.71
	Train: Sum of Case Weights Times Freq	1225144.00		1225144.00
	Train: Number of Wrong Classifications	233050.00		

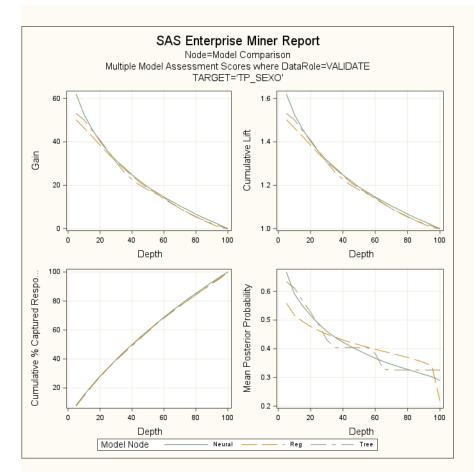
Target Variable=TP_SEXO Data Role=Valid

Target				
Label	Statistic	Neural	Tree	Reg
	Valid: Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Valid: Average Squared Error	0.23	0.23	0.24
	Valid: Roc Index	0.62	0.61	0.61
	Valid: Average Error Function	0.66		0.67
	Valid: Bin-Based Two-Way Kolmogorov-Smirnov Probability Cutoff	0.42	0.43	0.43
	Valid: Cumulative Percent Captured Response	15.26	15.02	14.64
	Valid: Percent Captured Response	7.16	7.36	7.13
	Valid: Divisor for VASE	204190.00	204190.00	204190.00
	Valid: Error Function	134042.63		136216.27
	Valid: Gain	52.62	50.16	46.41
	Valid: Gini Coefficient	0.23	0.21	0.21
	Valid: Bin-Based Two-Way Kolmogorov-Smirnov Statistic	0.17	0.16	0.17
	Valid: Kolmogorov-Smirnov Probability Cutoff	0.42	0.41	0.43
	Valid: Cumulative Lift	1.53	1.50	1.46
	Valid: Lift	1.43	1.47	1.43
	Valid: Maximum Absolute Error	0.91	0.68	0.86
	Valid: Misclassification Rate	0.38	0.38	0.39
	Valid: Mean Squared Error	0.23		0.24
	Valid: Sum of Frequencies	102095.00	102095.00	102095.00
	Valid: Root Average Squared Error	0.48	0.48	0.49
	Valid: Cumulative Percent Response	63.05	62.03	60.48
	Valid: Percent Response	59.12	60.78	58.90
	Valid: Root Mean Squared Error	0.48		0.49
	Valid: Sum of Squared Errors	47378.62	47561.23	48311.94
	Valid: Sum of Case Weights Times Freq	204190.00		204190.00
	Valid: Number of Wrong Classifications	38931.00		









Node=Score Summary

Node id = Score Node label = Score Meta path = Ids => Stat => Part => Neural => MdlComp => Score Notes =

Node=Score Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Score		HideInput	Υ		JScore	N	
CScore	N		HideOther	Υ		OptimizedCode	Υ	
FixedOutputNames	Υ		HidePredict	Υ		OutputType	DATA	VIEW
GraphReports	Υ		HideRejected	Υ		PackageName	DEFAULT	
HideAssess	Υ		HideResidual	Υ		PreferenceName		
HideClassification	Υ		HideTarget	Υ		ScoreTest	N	
HideFreq	Υ		HideVariables	N		ScoreValidate	N	

Node=Score Variable Summary

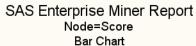
Role	Level	Frequency Count	Name
	NOMINAL	-	TP_SEXO
SEGMENT	NOMINAL	1	b TP SEXO

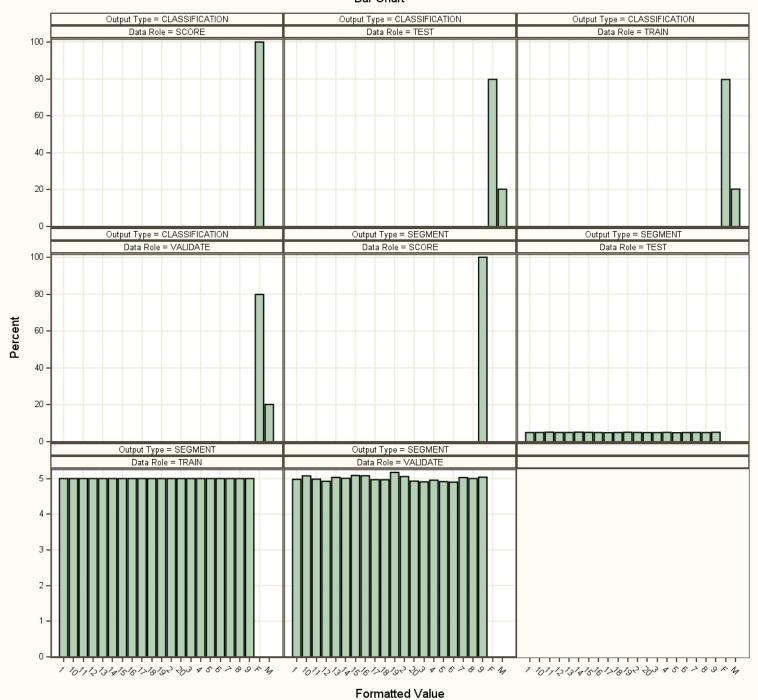
Node=Score Input Variables

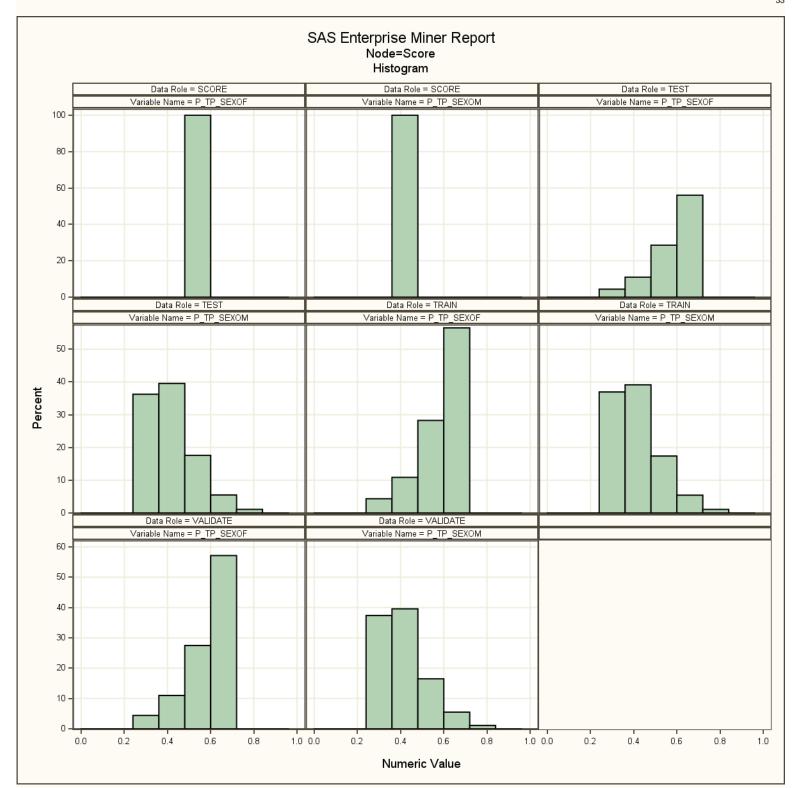
Variable Name	Role	Creator	Comment	Variable Hidden	Used in Score Code
NU_NOTA_CH	INPUT			N	Υ
NU_NOTA_MT	INPUT			N	Υ
TP_COR_RACA	INPUT			N	Υ
TP_SEXO	TARGET			N	N

Node=Score Output Variables

Variable Name	Creator	Variable Label	Function	Туре
EM_CLASSIFICATION	Score	Prediction for TP_SEXO	CLASSIFICATION	С
EM_EVENTPROBABILITY	Score	Probability for level M of TP_SEXO	PREDICT	N
EM_PROBABILITY	Score	Probability of Classification	PREDICT	N
EM_SEGMENT	Score	Segment	TRANSFORM	N
I_TP_SEXO	Neural	Into: TP_SEXO	CLASSIFICATION	С
P_TP_SEXOF	Neural	Predicted: TP_SEXO=F	PREDICT	N
P_TP_SEXOM	Neural	Predicted: TP_SEXO=M	PREDICT	N
U_TP_SEXO	Neural	Unnormalized Into: TP_SEXO	CLASSIFICATION	С
WARN	Neural	Warnings	ASSESS	С
b_TP_SEXO	MdlComp		TRANSFORM	N







Node=ENEM_2017_2019_SEM_VARIAVEIS Summary

Node id = Ids2 Node label = ENEM_2017_2019_SEM_VARIAVEIS Meta path = Ids2 Notes =

Node=ENEM_2017_2019_SEM_VARIAVEIS Properties

Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	Leandro	
ApplyIntervalLevelLowerLimit	Υ		Dsld	enemsemvariaveis	
ApplyMaxClassLevels	Υ		DsModifiedBy	Leandro	
ApplyMaxPercentMissing	Υ		DsModifyDate	1914664948.1	
CMeta	WORK.M1JIIXM4		DsSampleName		
ComputeStatistics	N		DsSampleSize		
DBPassThrough	Υ		DsSampleSizeType		
Data	ENEM.ENEM_2017_2019_SEM_VARIAVEIS		DsScope	LOCAL	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Υ	
DataSource	enemsemvariaveis		IntervalLowerLimit	20	
DataSourceRole	SCORE		Library	ENEM	
Description			MaxClassLevels	20	
DropMapVariables	Υ		MaxPercentMissing	50	
DsCreateDate	1914664948.1		MetaAdvisor	BASIC	

Property	Value	Default
NBytes	12321792	
NCols	19	
NObs	102096	
NewTable		
NewVariableRole	REJECT	
OutputType	DATA	VIEW
Role	SCORE	TRAIN
Sample	D	
SampleSizeObs	10000	
SampleSizePercent	20	
SampleSizeType	PERCENT	
Scope	LOCAL	
Segment		
Table	ENEM_2017_2019_SEM_VARIAVEIS	

Node=ENEM_2017_2019_SEM_VARIAVEIS Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	ENEM_2017_2019_SEM_VARIAVEIS	Date Created	15Jul2020:18:43:03	Data Size	12321792
Data Type	DATA	Date Modified	15Jul2020:18:43:03	Role	SCORE
Data Label		Number Rows	102096	Segment	
Engine	BASE	Number Columns	19	Data Library	ENEM

Node=ENEM_2017_2019_SEM_VARIAVEIS Variables List

Name	Label	Role	Level	Туре	Length	Format	Creator
NOTA_MEDIA		INPUT	INTERVAL	N	8		
NO_MUNICIPIO_RESIDENCIA		INPUT	NOMINAL	С	32		
NU_ANO		INPUT	INTERVAL	N	8		
NU_IDADE		INPUT	INTERVAL	N	8		
NU_INSCRICAO		INPUT	INTERVAL	N	8		
NU_NOTA_CH		INPUT	INTERVAL	N	8		
NU_NOTA_CN		INPUT	INTERVAL	N	8		

Name	Label	Role	Level	Туре	Length	Format	Creator
NU_NOTA_LC_OLD		INPUT	INTERVAL	N	8		
NU_NOTA_MT_OLD		INPUT	INTERVAL	N	8		
NU_NOTA_REDACAO		INPUT	INTERVAL	N	8		
SG_UF_RESIDENCIA		INPUT	NOMINAL	С	2		
TP_ANO_CONCLUIU		INPUT	NOMINAL	С	2		
TP_COR_RACA_OLD		INPUT	NOMINAL	С	1		
TP_ENSINO		INPUT	NOMINAL	С	1		
TP_ESCOLA		INPUT	NOMINAL	С	1		
TP_ESTADO_CIVIL		INPUT	NOMINAL	С	1		
TP_NACIONALIDADE		INPUT	NOMINAL	С	2		
TP_ST_CONCLUSAO		INPUT	NOMINAL	С	1		
TP_Sexo_OLD		INPUT	NOMINAL	С	1		

End of Report