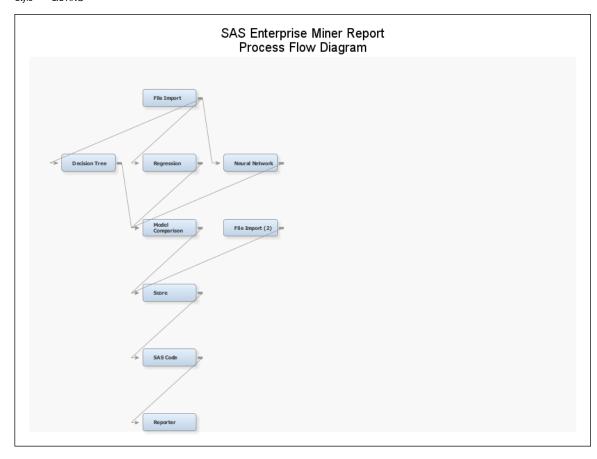
User = jmmorr01 Date = 12:27:21 October 29 Project = CIS 445 Project 2 Diagram = Diagram 1

Start Node = Report Node label = Reporter Nodes = PATH Showall = N

Format = PDF Style = LISTING



Node=File Import Summary

Node id = FIMPORT Node label = File Import Meta path = FIMPORT Notes =

Node=File Import Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	FileImport		GuessRows	500		NameRow	Υ	
AccessTable	NoTableName		IFileName	J:\JMMORR01\CIS 445\Project 2\WidgBuyTrain.xlsx		Password	NoPassword	
AdvancedAdvisor	N		ImportType	Local	LOCAL	Role	TRAIN	
Delimiter	,		MaxCols	10000		SkipRows	0	
FileType	xlsx	XLS	MaxRows	1000000		Summarize	N	

Node=File Import Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT_DATA	Date Created	29Oct2018:11:21:18	Data Size	66560
Data Type	DATA	Date Modified	29Oct2018:11:21:18	Role	TRAIN
Data Label		Number Rows	20	Segment	
Engine	V9	Number Columns	7	Data Library	EMWS1

Node=File Import Variables List

Name	Label	Role	Level	Туре	Length	Format	Creator
Age	Age	INPUT	INTERVAL	N	8	BEST.	
Income	Income	INPUT	NOMINAL	С	4	\$4.	
Residence	Residence	INPUT	NOMINAL	С	3	\$3.	
WidgBuy	WidgBuy	TARGET	BINARY	С	3	\$3.	
X2	X2	INPUT	INTERVAL	N	8	BEST.	
X4	X4	INPUT	INTERVAL	N	8	BEST.	
X5	X5	INPUT	INTERVAL	N	8	BEST.	

Node=File Import Created Variables List

Node=Neural Network Summary

Node id = Neural Node label = Neural Network Meta path = FIMPORT => Neural Notes =

Node=Neural Network Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	1	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	

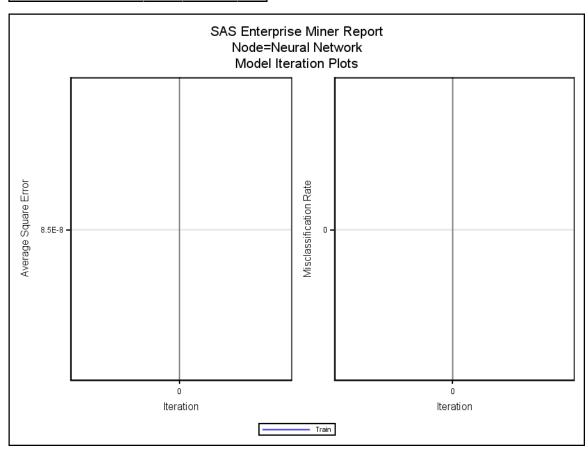
Node=Neural Network Variable Summary

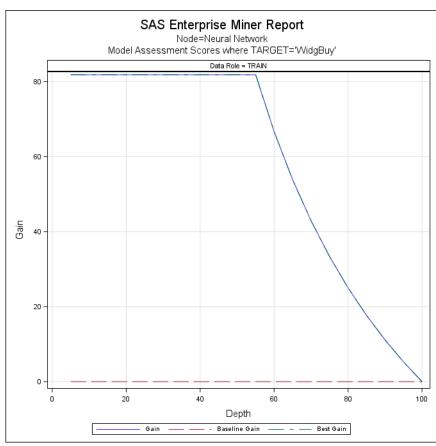
Role	Level	Frequency Count	Name
TARGET	BINARY	1	WidgBuy
INPUT	INTERVAL	4	Age X2 X4 X5
INPUT	NOMINAL	2	Income Residence

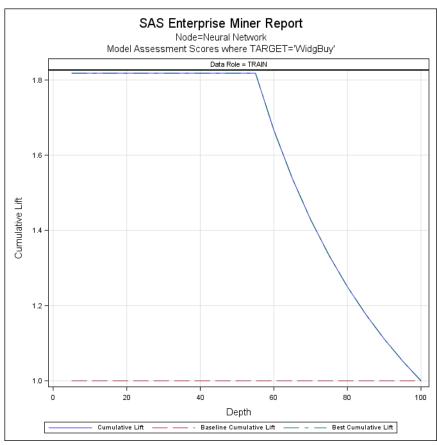
Node=Neural Network Model Fit Statistics

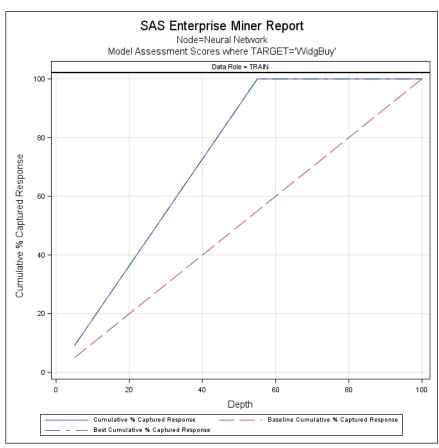
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	20.0000		
Degrees of Freedom for Error	10.0000		
Model Degrees of Freedom	10.0000		
Number of Estimated Weights	10.0000		
Akaike's Information Criterion	20.0107		

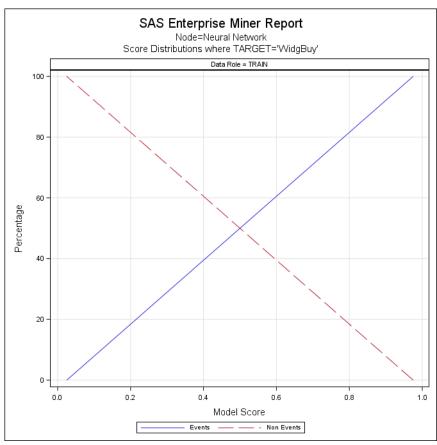
Label of Statistic	Train	Validation	Test
Schwarz's Bayesian Criterion	29.9680		
Average Squared Error	0.0000		
Maximum Absolute Error	0.0005		
Divisor for ASE	40.0000		
Sum of Frequencies	20.0000		
Root Average Squared Error	0.0003		
Sum of Squared Errors	0.0000		
Sum of Case Weights Times Freq	40.0000		
Final Prediction Error	0.0000		
Mean Squared Error	0.0000		
Root Final Prediction Error	0.0005		
Root Mean Squared Error	0.0004		
Average Error Function	0.0003		
Error Function	0.0107		
Misclassification Rate	0.0000		
Number of Wrong Classifications	0.0000		

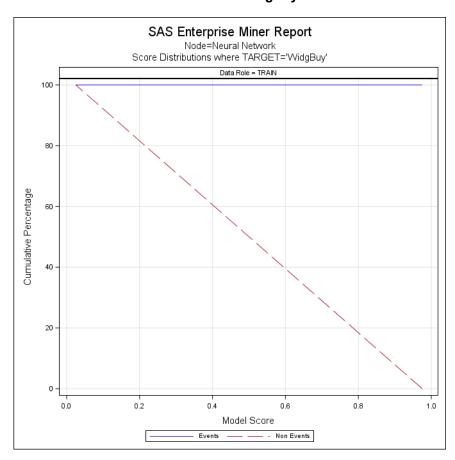












Node=Neural Network Score Distributions

Target Variable=WidgBuy Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	11	100	0	100	0
0.00-0.05	0	0	100	100	100

Node=Decision Tree Summary

Node id = Tree Node label = Decision Tree Meta path = FIMPORT => Tree Notes =

Node=Decision Tree Properties

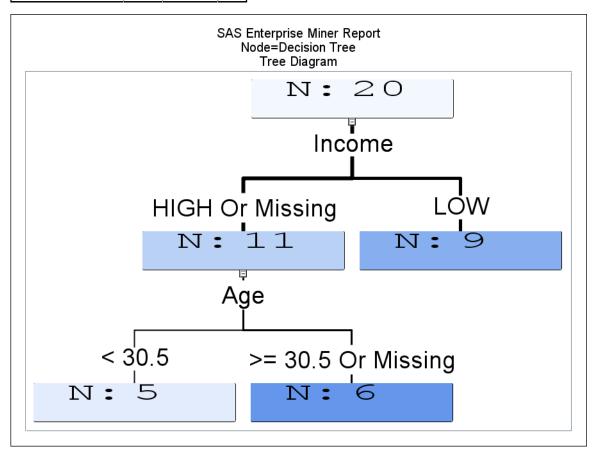
Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Υ		Pred	N	
AVG	Υ		KassApply	BEFORE		Predict	Υ	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Υ		RASE	N	
CV	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	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	ENTROPY	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	

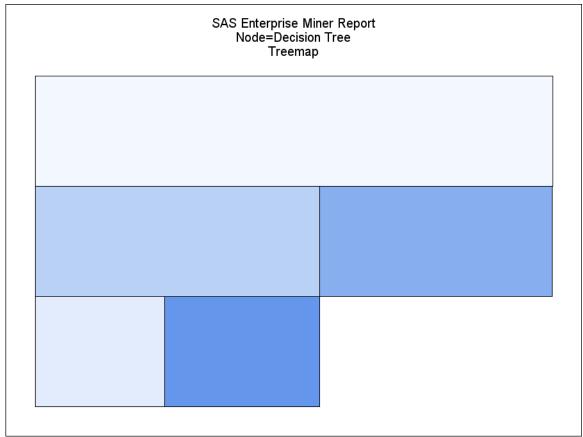
Node=Decision Tree Variable Summary

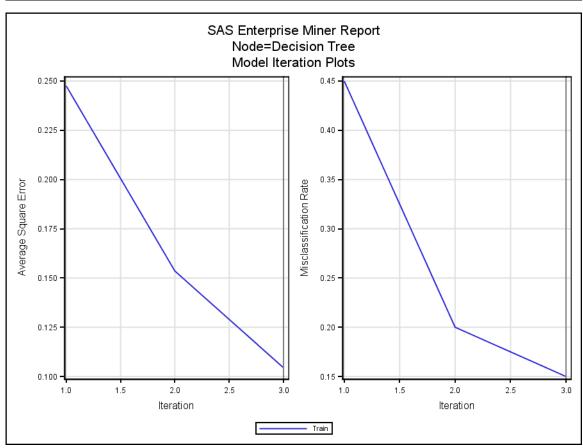
Role	Level	Frequency Count	Name
TARGET	BINARY	1	WidgBuy
INPUT	INTERVAL	4	Age X2 X4 X5
INPUT	NOMINAL	2	Income Residence

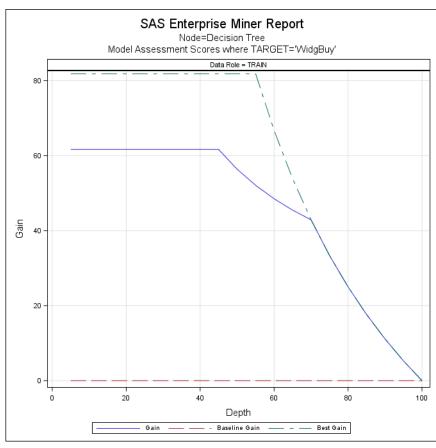
Node=Decision Tree Model Fit Statistics

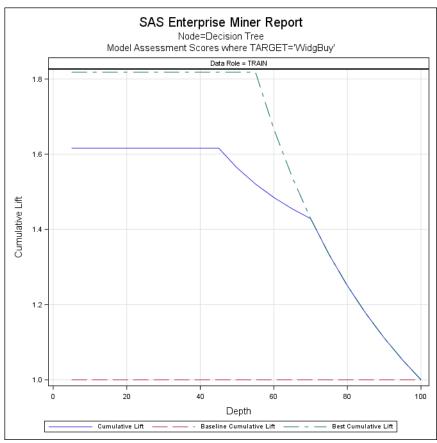
Label of Statistic	Train	Validation	Test
Sum of Frequencies	20.0000		
Misclassification Rate	0.1500		
Maximum Absolute Error	0.8889		
Sum of Squared Errors	4.1778		
Average Squared Error	0.1044		
Root Average Squared Error	0.3232		
Divisor for ASE	40.0000		
Total Degrees of Freedom	20.0000		

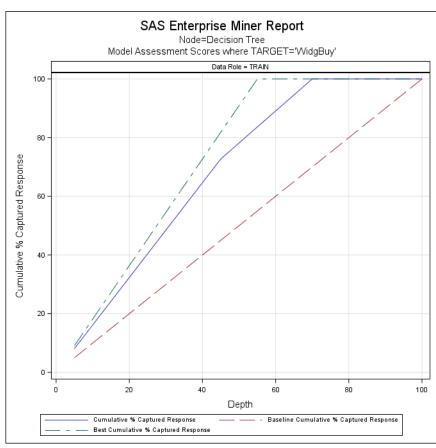


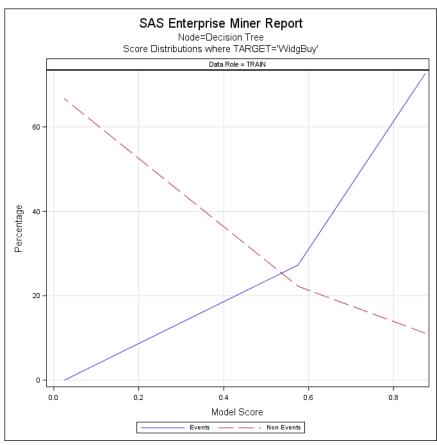


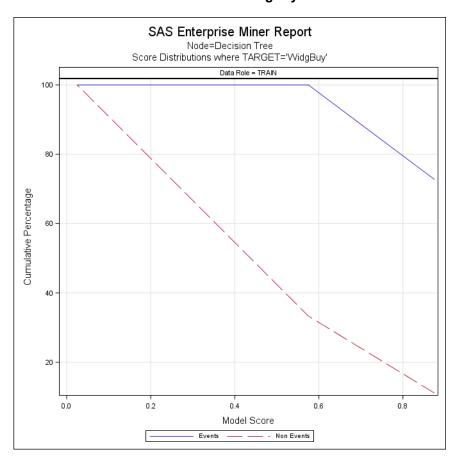












Node=Decision Tree Score Distributions

Target Variable=WidgBuy Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.85-0.90	8	72.7273	11.1111	72.727	11.111
0.55-0.60	3	27.2727	22.2222	100.000	33.333
0.00-0.05	0	0.0000	66.6667	100.000	100.000

Node=Regression Summary

Node id = Reg Node label = Regression Meta path = FIMPORT => Reg Notes =

Node=Regression 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	LOGISTIC		ModelSelection	NONE		SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

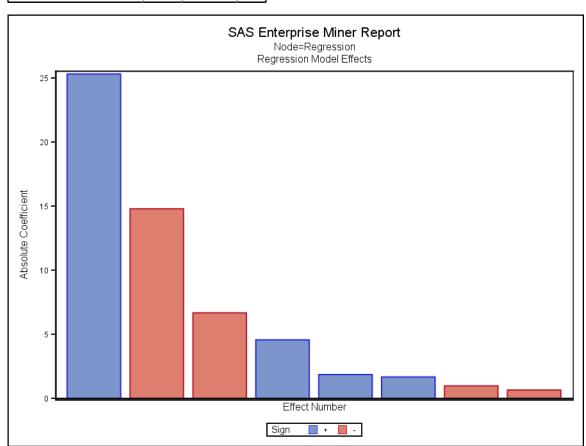
Node=Regression Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	WidgBuy
INPUT	INTERVAL	4	Age X2 X4 X5
INPUT	NOMINAL	2	Income Residence

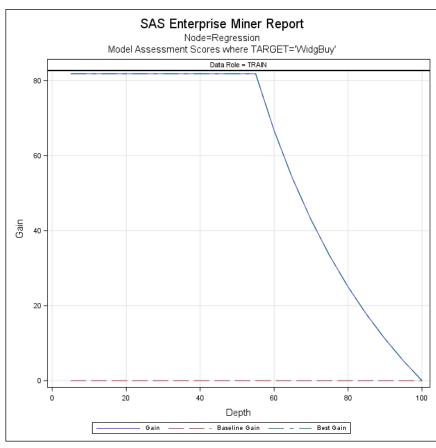
Node=Regression Model Fit Statistics

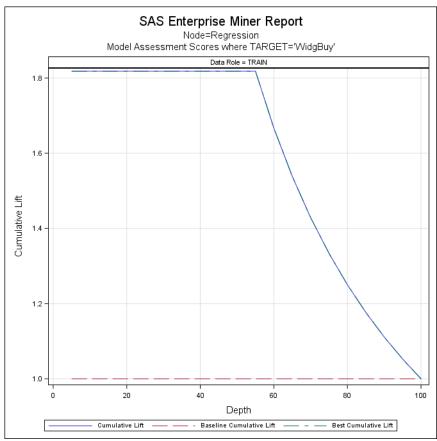
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	16.0123		
Average Squared Error	0.0000		
Average Error Function	0.0003		
Degrees of Freedom for Error	12.0000		
Model Degrees of Freedom	8.0000		
Total Degrees of Freedom	20.0000		

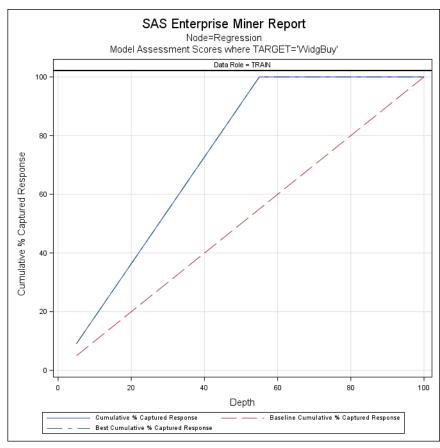
Label of Statistic	Train	Validation	Test
Divisor for ASE	40.0000		
Error Function	0.0123		
Final Prediction Error	0.0000		
Maximum Absolute Error	0.0013		
Mean Square Error	0.0000		
Sum of Frequencies	20.0000		
Number of Estimate Weights	8.0000		
Root Average Sum of Squares	0.0005		
Root Final Prediction Error	0.0008		
Root Mean Squared Error	0.0007		
Schwarz's Bayesian Criterion	23.9781		
Sum of Squared Errors	0.0000		
Sum of Case Weights Times Freq	40.0000		
Misclassification Rate	0.0000		

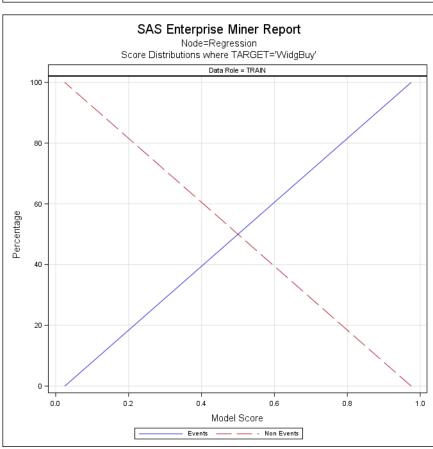


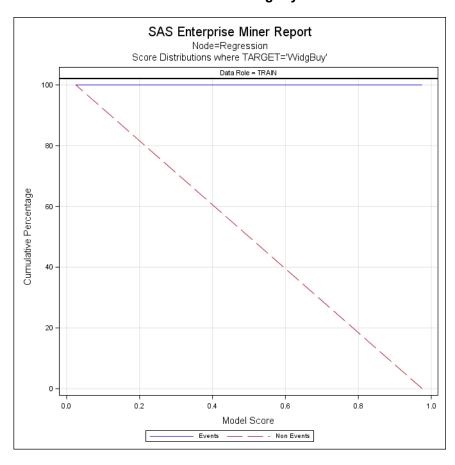
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	YES	25.3156	0.16328	0.87030	5	Residence	LA	1.85572	0.04329	0.96547
2	Residence	СНІ	-14.7970	-0.29893	0.76499	6	X4		1.66886	0.01638	0.98693
3	Income	HIGH	-6.6741	-0.25573	0.79816	7	Age		-0.97247	-0.16754	0.86694
4	X2		4.5656	0.11708	0.90680	8	X5		-0.65338	-0.06078	0.95154











Node=Regression Score Distributions

Target Variable=WidgBuy Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	11	100	0	100	0
0.00-0.05	0	0	100	100	100

Node=File Import (2) Summary

Node id = FIMPORT2 Node label = File Import (2) Meta path = FIMPORT2 Notes =

Node=File Import (2) Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	FileImport		GuessRows	500		NameRow	Υ	
AccessTable	NoTableName		IFileName	J:\JMMORR01\CIS 445\Project 2\WidgBuyScore.xlsx		Password	NoPassword	
AdvancedAdvisor	N		ImportType	Local	LOCAL	Role	SCORE	TRAIN
Delimiter	,		MaxCols	10000		SkipRows	0	
FileType	xlsx	XLS	MaxRows	1000000		Summarize	N	

Node=File Import (2) Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT2_DATA	Date Created	29Oct2018:11:59:35	Data Size	66560
Data Type	DATA	Date Modified	29Oct2018:11:59:35	Role	TRAIN
Data Label		Number Rows	9	Segment	
Engine	V9	Number Columns	6	Data Library	EMWS1

Node=File Import (2) Variables List

Name	Label	Role	Level	Туре	Length	Format	Creator
Age	Age	INPUT	INTERVAL	N	8	BEST.	
Income	Income	INPUT	NOMINAL	С	4	\$4.	
Residence	Residence	INPUT	NOMINAL	С	3	\$3.	
X2	X2	INPUT	INTERVAL	N	8	BEST.	
X4	X4	INPUT	INTERVAL	N	8	BEST.	
X5	X5	INPUT	INTERVAL	N	8	BEST.	

Node=File Import (2) Created Variables List

Node=Model Comparison Summary

Node id = MdlComp Node label = Model Comparison Meta path = FIMPORT => Neural => MdlComp Notes =

Node=Model Comparison Properties

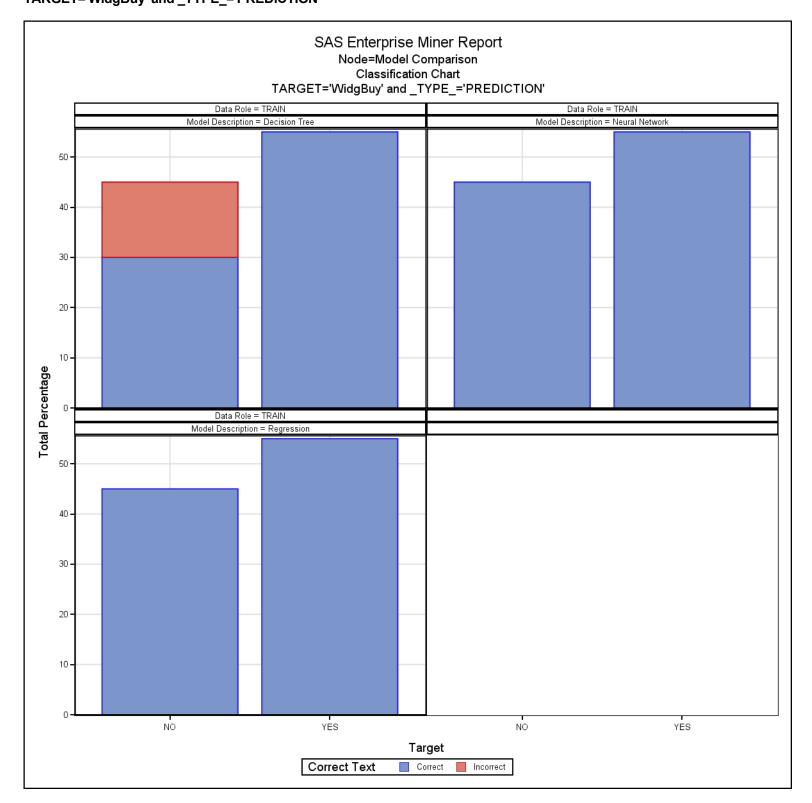
Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NormalizeReportingVariables	Υ		ScoreDistBin	20	
AssessAllTargetLevels	N		NumberOfReportedLevels	1E-6		SelectionCriteria	DEFAULT	
DecileBin	20		NumberofBins	20		SelectionData	DEFAULT	
HPCriteria	DEFAULT		ProfitEpsilon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

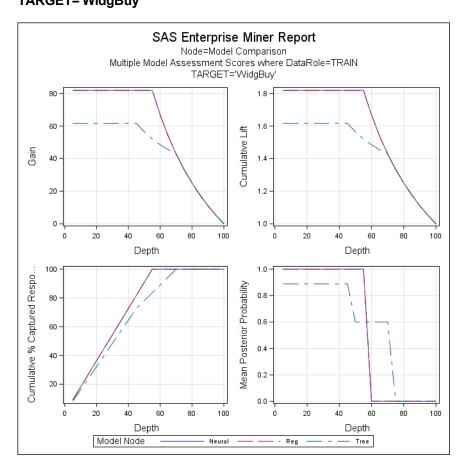
Node=Model Comparison Variable Summary

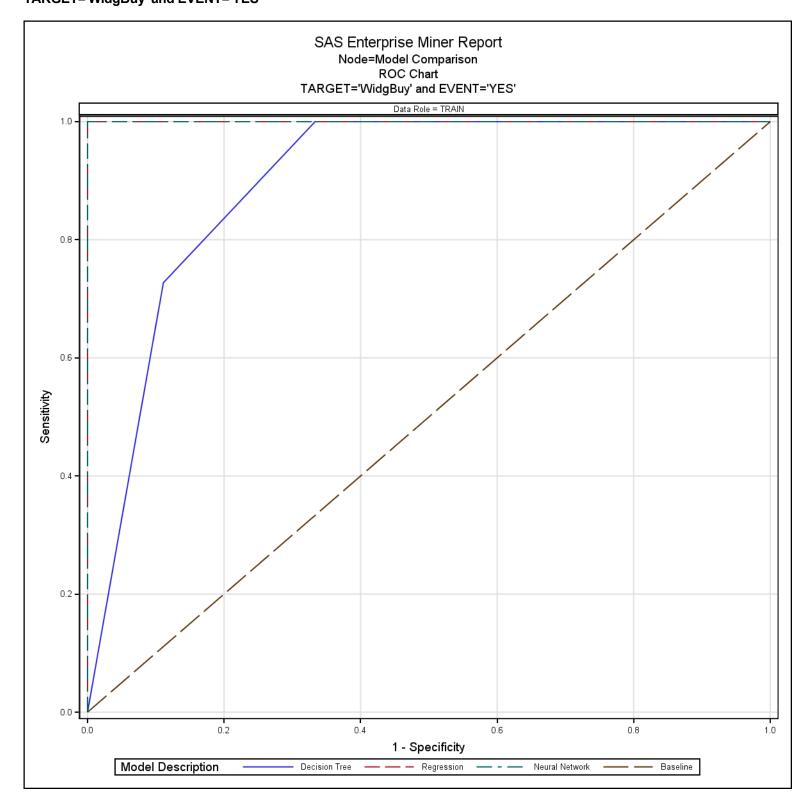
Role	Level	Frequency Count	Name
TARGET	BINARY	1	WidgBuy

Node=Model Comparison Fit Statistics Table

Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Train: Misclassification Rate	Train: Average Squared Error		Train: Kolmogorov-Smirnov Statistic		Train: Gini Coefficient
Υ	Neural	Neural	Neural Network	WidgBuy	WidgBuy	0.00	0.00000	0.00	1.000	1.000	1.000
	Reg	Reg	Regression	WidgBuy	WidgBuy	0.00	0.00000	0.00	1.000	1.000	1.000
	Tree	Tree	Decision Tree	WidgBuy	WidgBuy	0.15	0.10444	0.15	0.667	0.899	0.798







Node=Score Summary

Node id = Score Node label = Score Meta path = FIMPORT => Neural => MdlComp => Score Notes =

Node=Score Properties

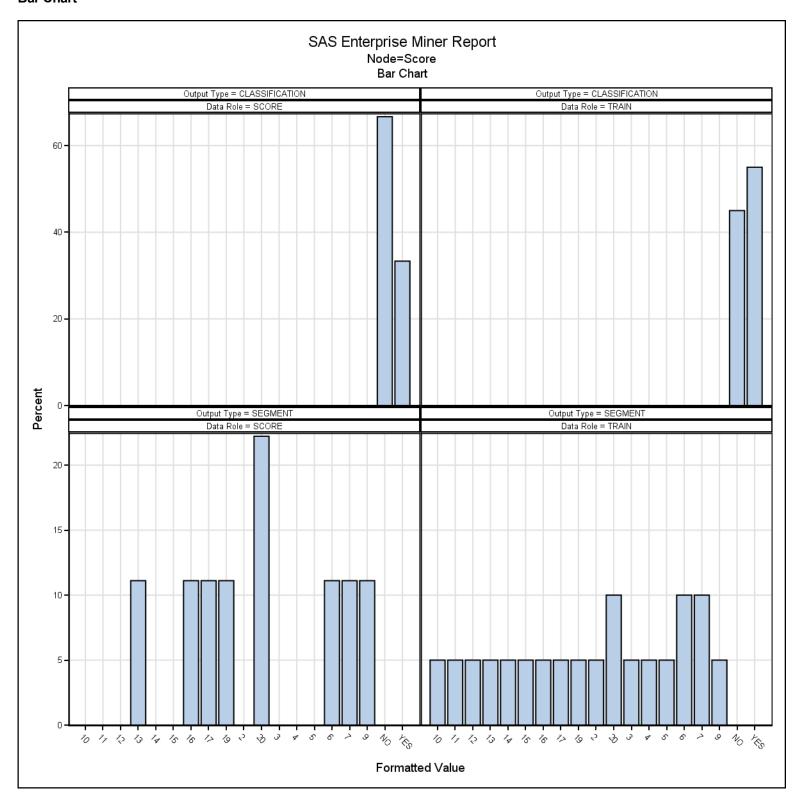
Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Score		HideInput	Υ		JScore	N	
CScore	N		HideOther	Υ		OptimizedCode	Υ	
FixedOutputNames	Υ		HidePredict	Υ		OutputType	VIEW	
GraphReports	Υ		HideRejected	Υ		PackageName DEFAULT		
HideAssess	Υ		HideResidual	Υ		PreferenceName	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

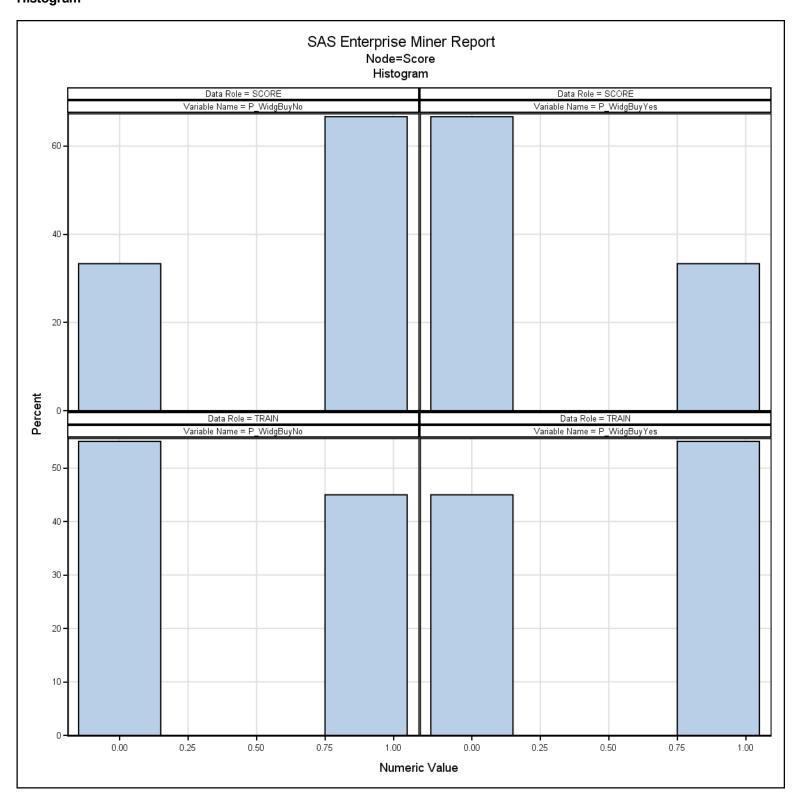
Node=Score Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	WidgBuy
SEGMENT	NOMINAL	1	b_WidgBuy

Node=Score Output Variables

Variable Name	Creator	Variable Label	Function	Туре
EM_CLASSIFICATION	Score	Prediction for WidgBuy	CLASSIFICATION	С
EM_EVENTPROBABILITY	Score	Probability for level YES of WidgBuy	PREDICT	N
EM_PROBABILITY	Score	Probability of Classification	PREDICT	N
EM_SEGMENT	Score	Segment	TRANSFORM	N
I_WidgBuy	Neural	Into: WidgBuy	CLASSIFICATION	С
P_WidgBuyNo	Neural	Predicted: WidgBuy=No	PREDICT	N
P_WidgBuyYes	Neural	Predicted: WidgBuy=Yes	PREDICT	N
U_WidgBuy	Neural	Unnormalized Into: WidgBuy	CLASSIFICATION	С
WARN	Neural	Warnings	ASSESS	С
b_WidgBuy	MdlComp		TRANSFORM	N





Node=SAS Code Summary

Node id = EMCODE Node label = SAS Code Meta path = FIMPORT => Neural => MdlComp => Score => EMCODE Notes =

Node=SAS Code Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	SASCode		PublishCode	PUBLISH		ToolType	UTILITY	
MetaAdvisor	BASIC		ScoreCodeFormat	DATASTEP		UsePriors	Υ	

Node=SAS Code Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	4	Age X2 X4 X5
INPUT	NOMINAL	2	Income Residence

End of Report