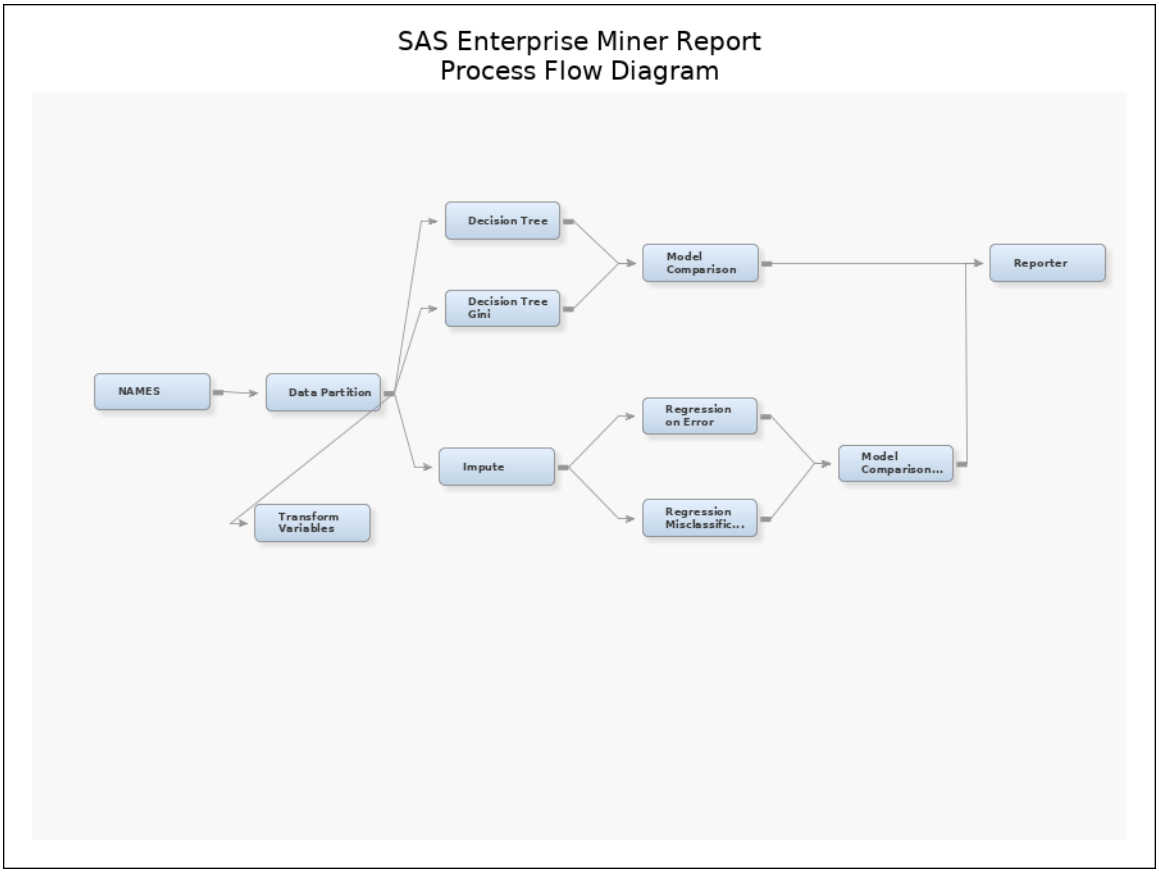
SAS Enterprise Miner Report

User = u45578887
Date = 12:10:37 June 03
Project = ProjectAboutNames
Diagram = Names

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

Format = PDF
Style = LISTING



SAS Enterprise Miner Report

Node=NAMES
Summary

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

Node=NAMES
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	u45578887		NBytes	10617856	.
ApplyIntervalLevelLowerLimit	Y		DsId	names		NCols	8	.
ApplyMaxClassLevels	Y		DsModifiedBy	u45578887		NObs	62609	.
ApplyMaxPercentMissing	Y		DsModifyDate	1906801999.9		NewTable		
CMeta	WORK.M28LT5TP		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	VIEW	
DBPassThrough	Y		DsSampleSizeType			Role	RAW	TRAIN
Data	NAMES.NAMES		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y		SampleSizeObs	10000	
DataSource	names		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	NAMES		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Y		MaxPercentMissing	50		Segment		
DsCreateDate	1906801999.9		MetaAdvisor	BASIC		Table	NAMES	

Node=NAMES
Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	NAMES	Date Created	03Jun2020:11:09:55	Data Size	10617856
Data Type	DATA	Date Modified	03Jun2020:11:09:55	Role	RAW
Data Label		Number Rows	62609	Segment	
Engine	BASE	Number Columns	8	Data Library	NAMES

Node=NAMES
Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
A	A	REJECTED	INTERVAL	N	8	BEST.	
GenderCode	GenderCode	TARGET	NOMINAL	N	8	BEST.	
Name	Name	REJECTED	NOMINAL	C	35	$35.	
NameCode	NameCode	INPUT	NOMINAL	N	8	BEST.	
Surname	Surname	REJECTED	NOMINAL	C	39	$39.	
SurnameCode	SurnameCode	INPUT	NOMINAL	N	8	BEST.	
ThirdName	ThirdName	REJECTED	NOMINAL	C	48	$48.	
ThirdNameCode	ThirdNameCode	INPUT	NOMINAL	N	8	BEST.	

SAS Enterprise Miner Report

Node=Data Partition
Summary

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

Node=Data Partition
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Partition		Method	DEFAULT		TestPct	0	30
ClassDistribution	Y		OutputType	DATA		TrainPct	50	40
IntervalDistribution	Y		RandomSeed	12345		ValidatePct	50	30

Node=Data Partition
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode
REJECTED	INTERVAL	1	A
REJECTED	NOMINAL	3	Name Surname ThirdName
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode

SAS Enterprise Miner Report

Node=Decision Tree Gini Summary

Node id = Tree2
Node label = Decision Tree Gini
Meta path = Ids => Part => Tree2
Notes =

Node=Decision Tree Gini Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Y		Pred	N	
AVG	Y		KassApply	BEFORE		Predict	Y	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Y		RASE	N	
CV	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	6		SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeId	Y	
ClassColorBy	PERCENTCORRECT		NSubtree	1		ShowValid	Y	
Count	Y		NodeRole	SEGMENT		SigLevel	0.2	
CreateSample	DEFAULT		NodeSample	20000		SplitPrecision	4	
Criterion	DEFAULT		NominalCriterion	PROBCHISQ		Splitsize	.	
Depth	Y		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	GINI	ENTROPY	UseMultipleTarget	N	
Inputs	N		PercentCorrect	N		UsePriors	N	
IntColorBy	AVG		Performance	DISK		UseVarOnce	N	
IntervalCriterion	PROBF		Precision	4		VarSelection	Y	

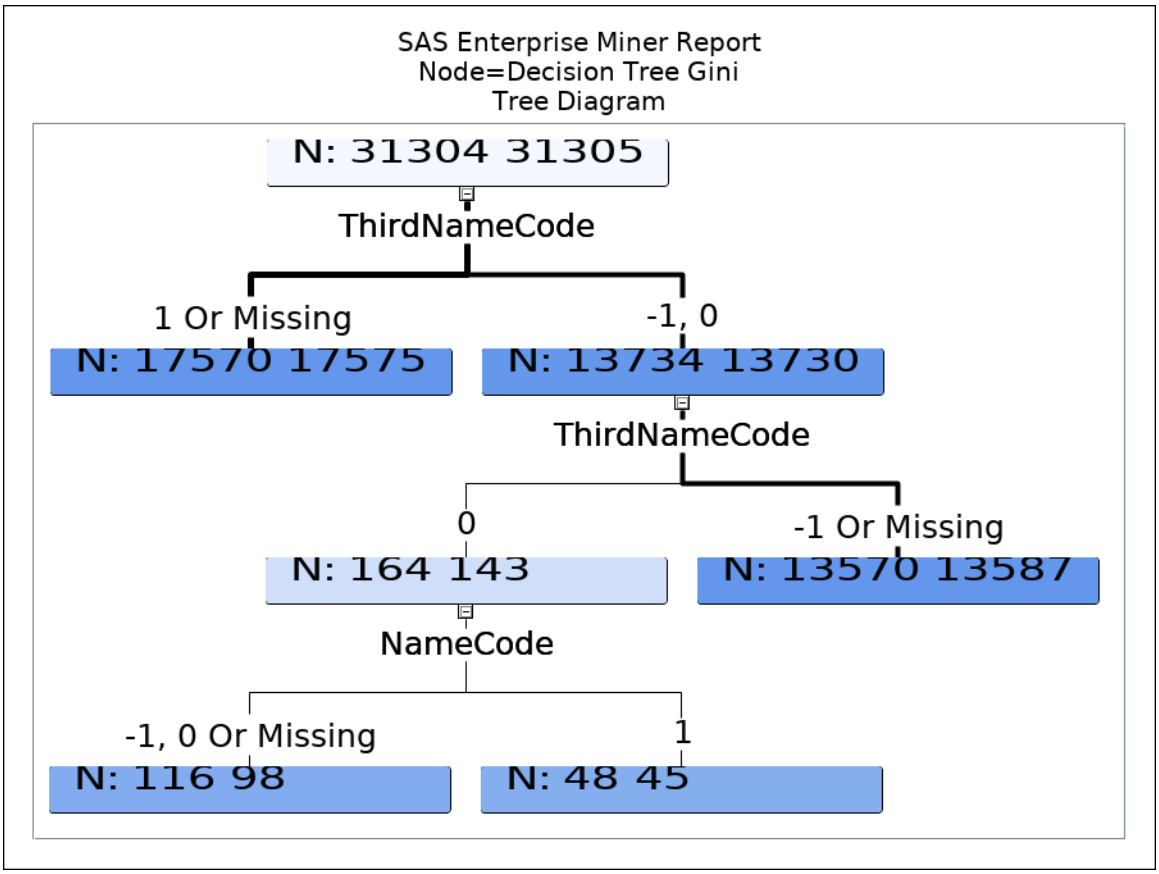
Node=Decision Tree Gini Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode
ID	INTERVAL	1	_dataobs_

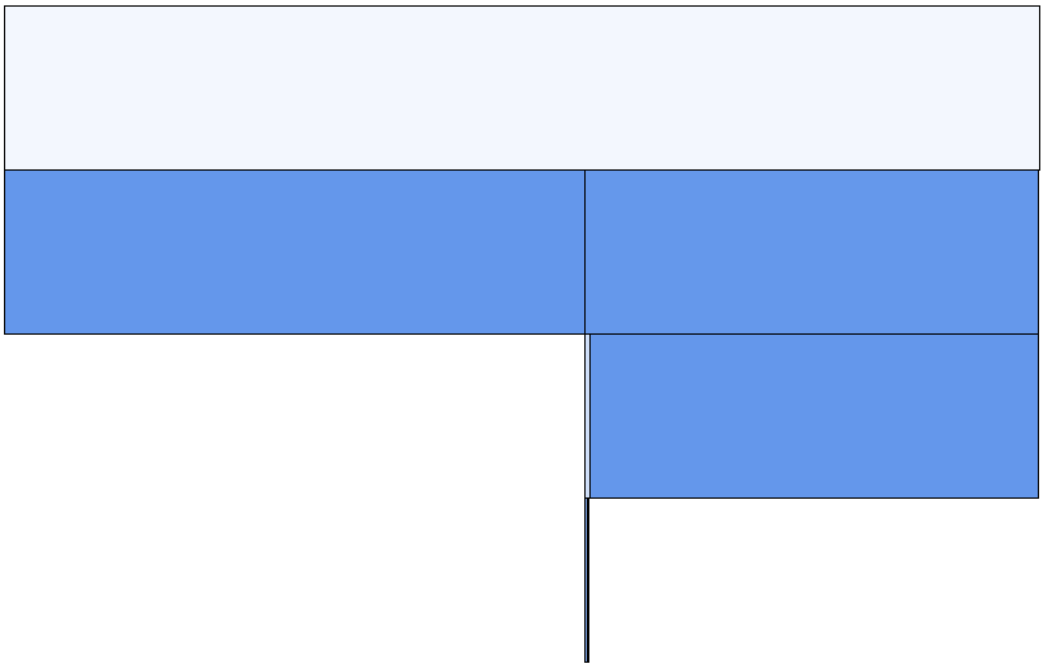
Node=Decision Tree Gini Model Fit Statistics

Target=GenderCode Target Label=GenderCode

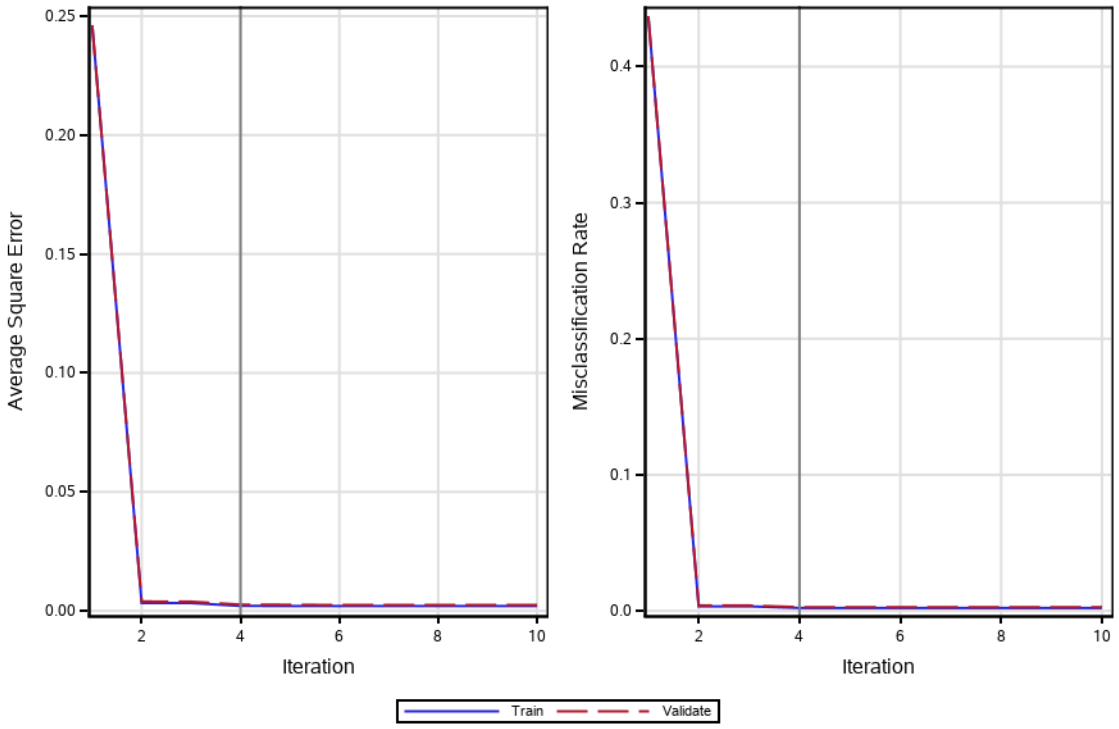
Label of Statistic	Train	Validation	Test
Sum of Frequencies	31304.00	31305.00	.
Misclassification Rate	0.00	0.00	.
Maximum Absolute Error	1.00	1.00	.
Sum of Squared Errors	128.71	165.16	.
Average Squared Error	0.00	0.00	.
Root Average Squared Error	0.05	0.05	.
Divisor for ASE	62608.00	62610.00	.
Total Degrees of Freedom	31304.00	.	.

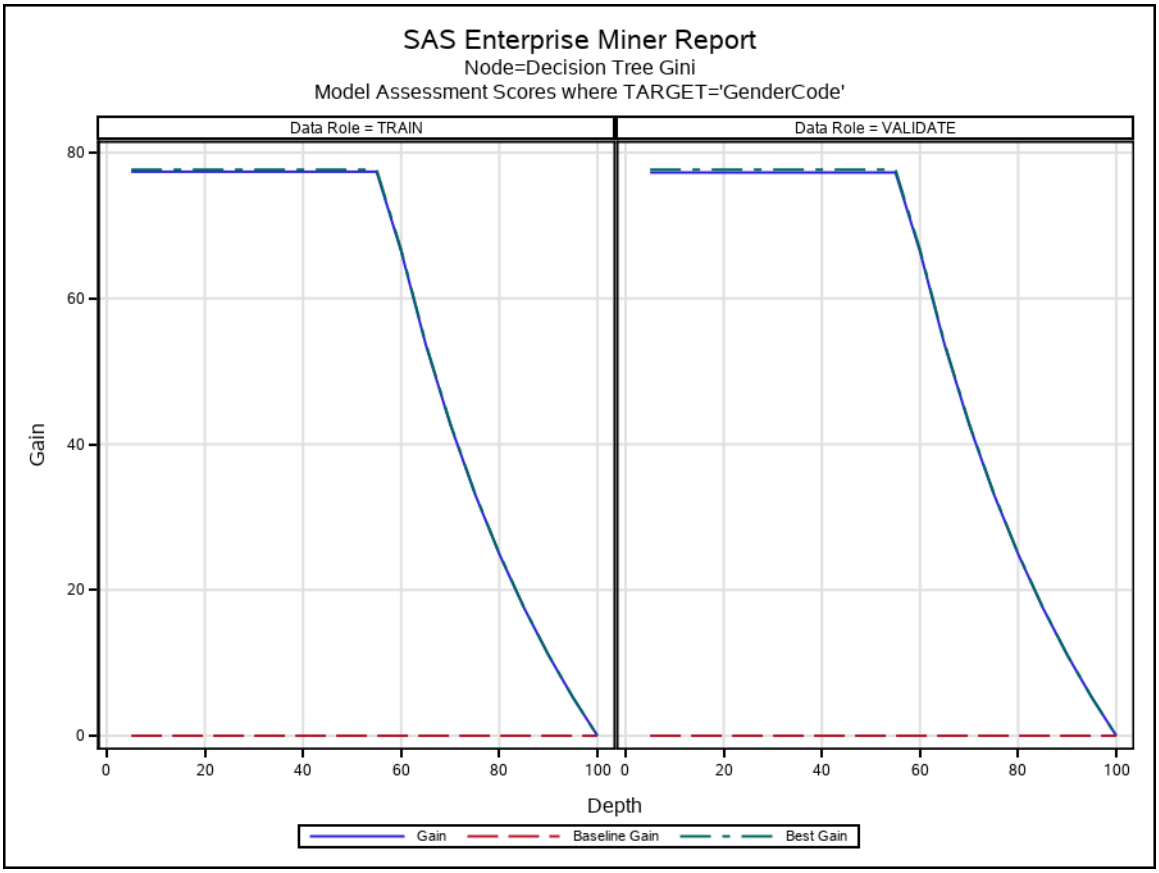


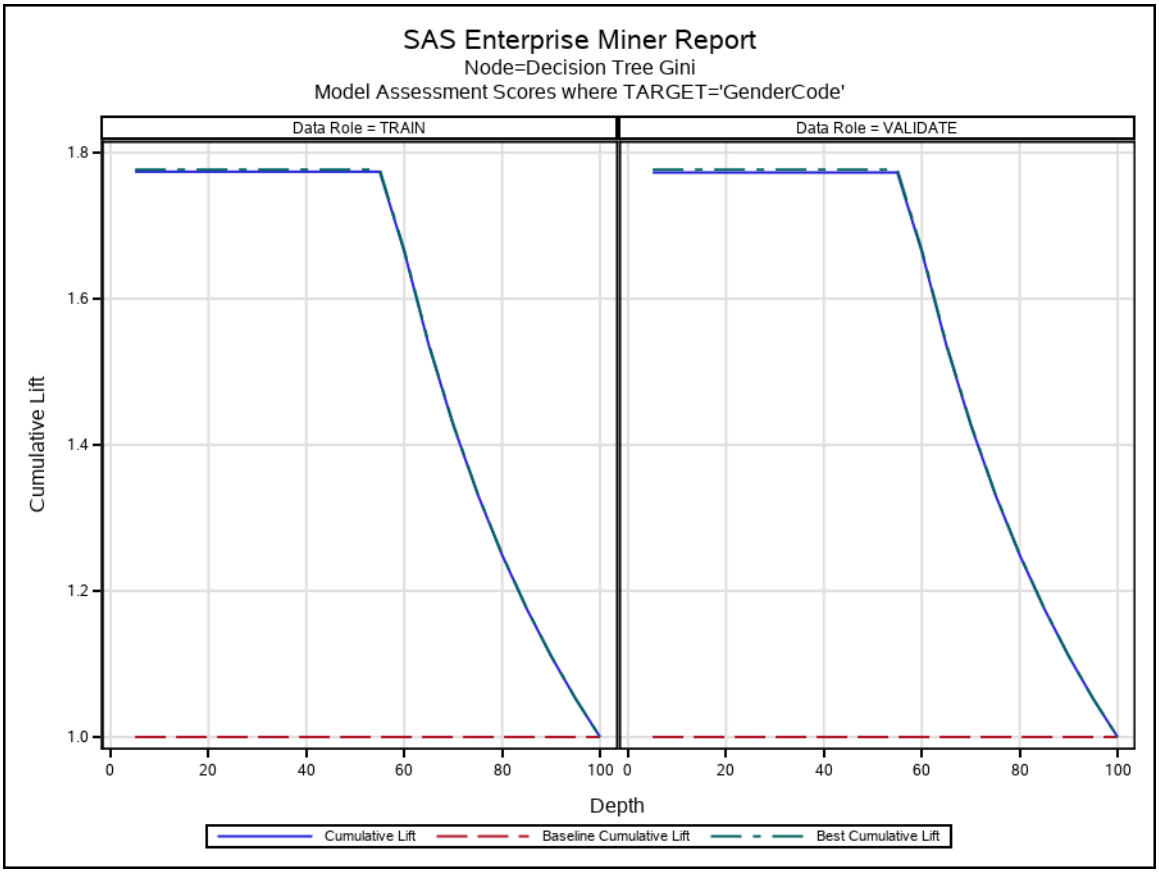
SAS Enterprise Miner Report
Node=Decision Tree Gini
Treemap

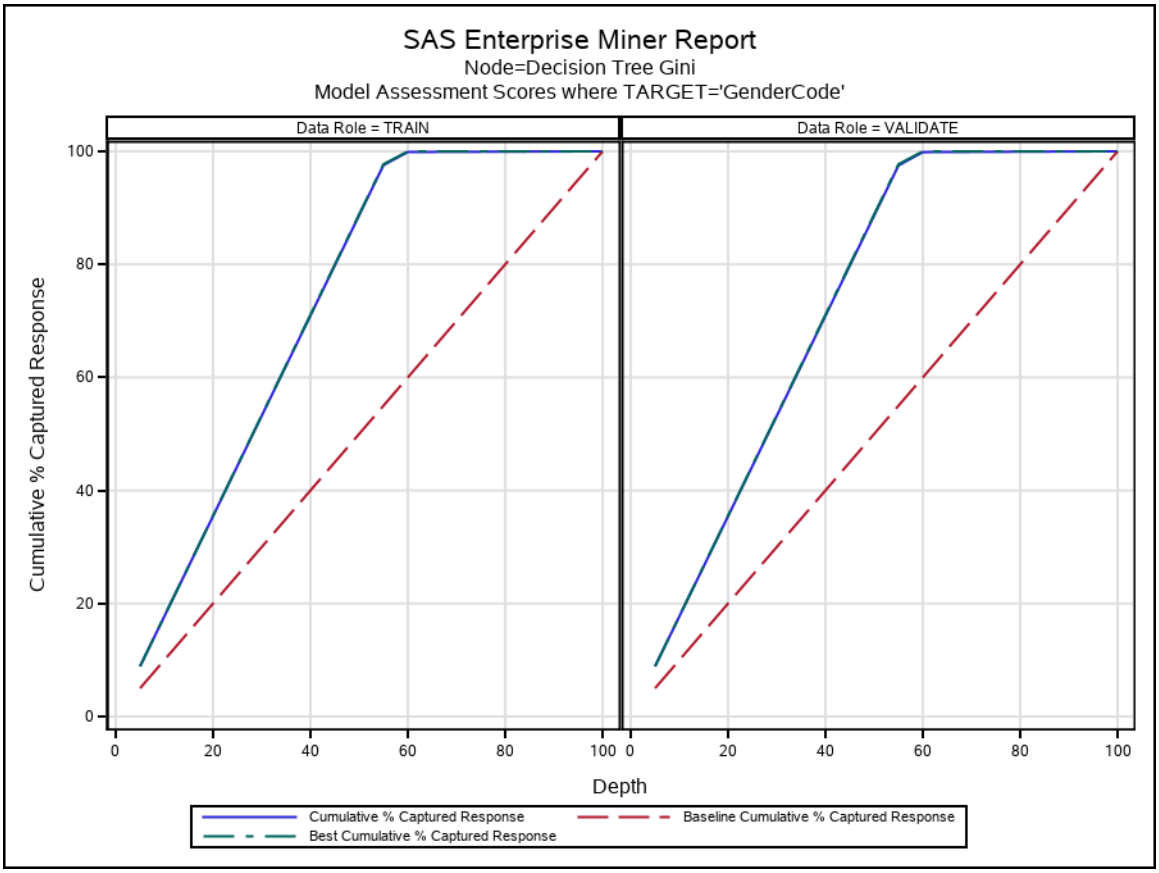


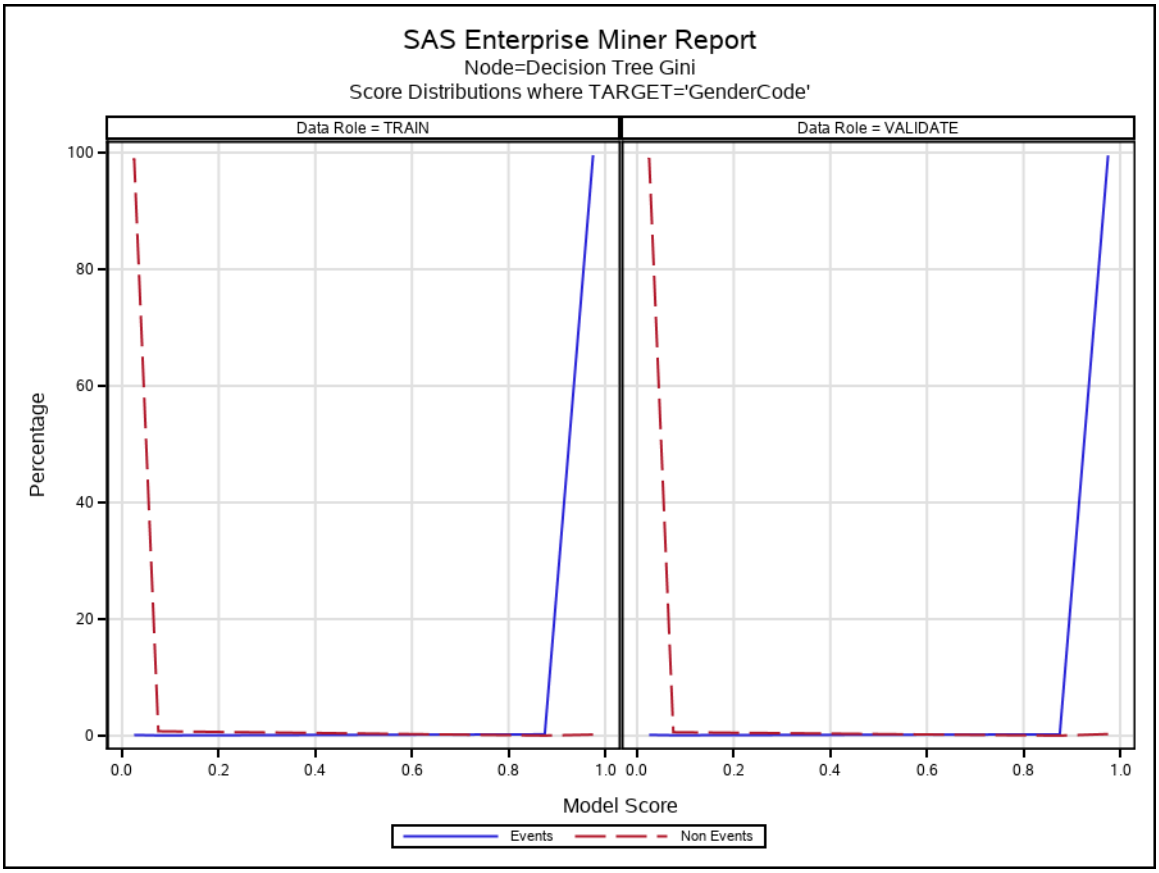
SAS Enterprise Miner Report
Node=Decision Tree Gini
Model Iteration Plots

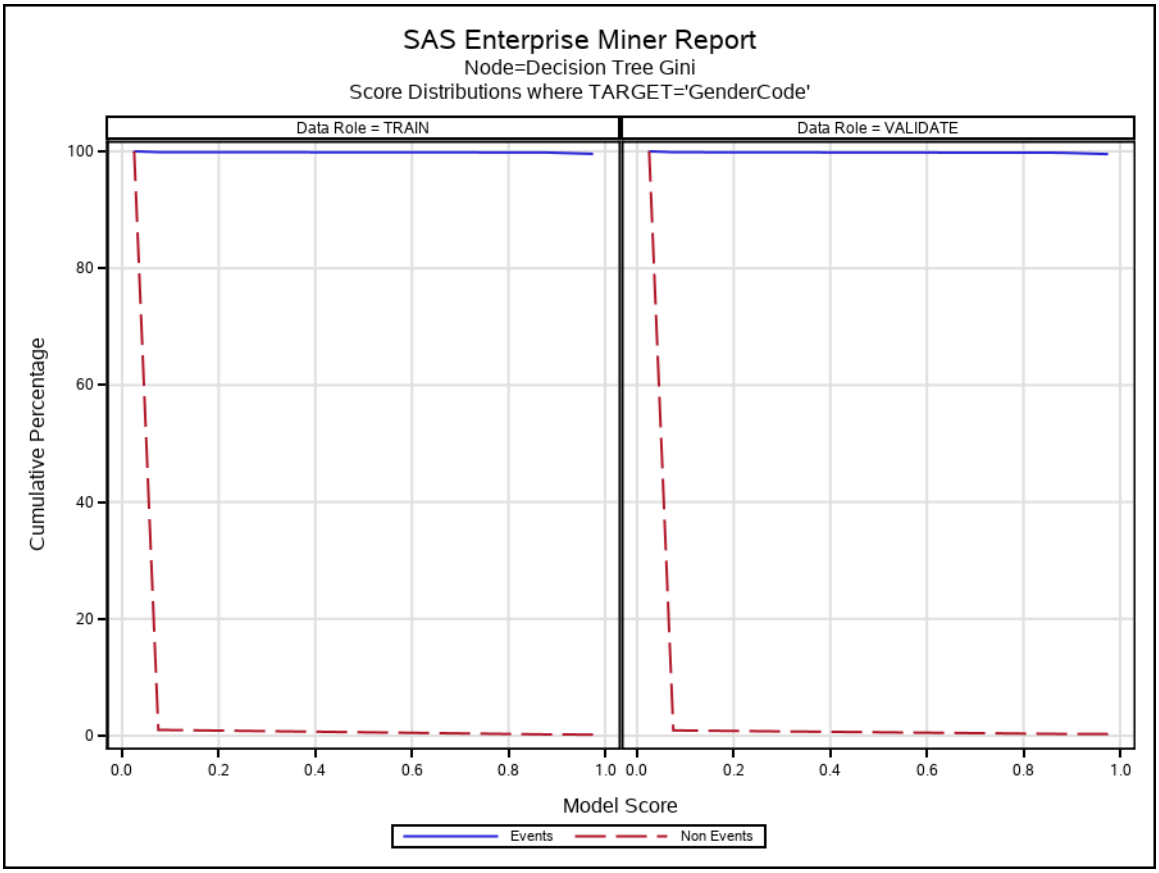



SAS Enterprise Miner Report
Node=Decision Tree Gini
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Gain
Depth
Gain
Baseline Gain
Best Gain


SAS Enterprise Miner Report
Node=Decision Tree Gini
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift


SAS Enterprise Miner Report
Node=Decision Tree Gini
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative % Captured Response
Depth
Cumulative % Captured Response
Baseline Cumulative % Captured Response
Best Cumulative % Captured Response


SAS Enterprise Miner Report
Node=Decision Tree Gini
Score Distributions where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Percentage
Model Score
Events
Non Events



Node=Decision Tree Gini
Score Distributions

Target Variable=GenderCode 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	17543	99.5630	0.1973	99.563	0.197
0.85-0.90	43	0.2440	0.0365	99.807	0.234
0.05-0.10	11	0.0624	0.7673	99.869	1.001
0.00-0.05	23	0.1305	98.9988	100.000	100.000

Target Variable=GenderCode Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	17535	99.5232	0.2923	99.523	0.292
0.85-0.90	42	0.2384	0.0219	99.762	0.314
0.05-0.10	16	0.0908	0.5992	99.852	0.913
0.00-0.05	26	0.1476	99.0867	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree
Summary

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

Node=Decision Tree
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Y		Pred	N	
AVG	Y		KassApply	BEFORE		Predict	Y	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Y		RASE	N	
CV	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	6		SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeId	Y	
ClassColorBy	PERCENTCORRECT		NSubtree	1		ShowValid	Y	
Count	Y		NodeRole	SEGMENT		SigLevel	0.2	
CreateSample	DEFAULT		NodeSample	20000		SplitPrecision	4	
Criterion	DEFAULT		NominalCriterion	PROBCHISQ		Splitsize	.	
Depth	Y		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	Y	

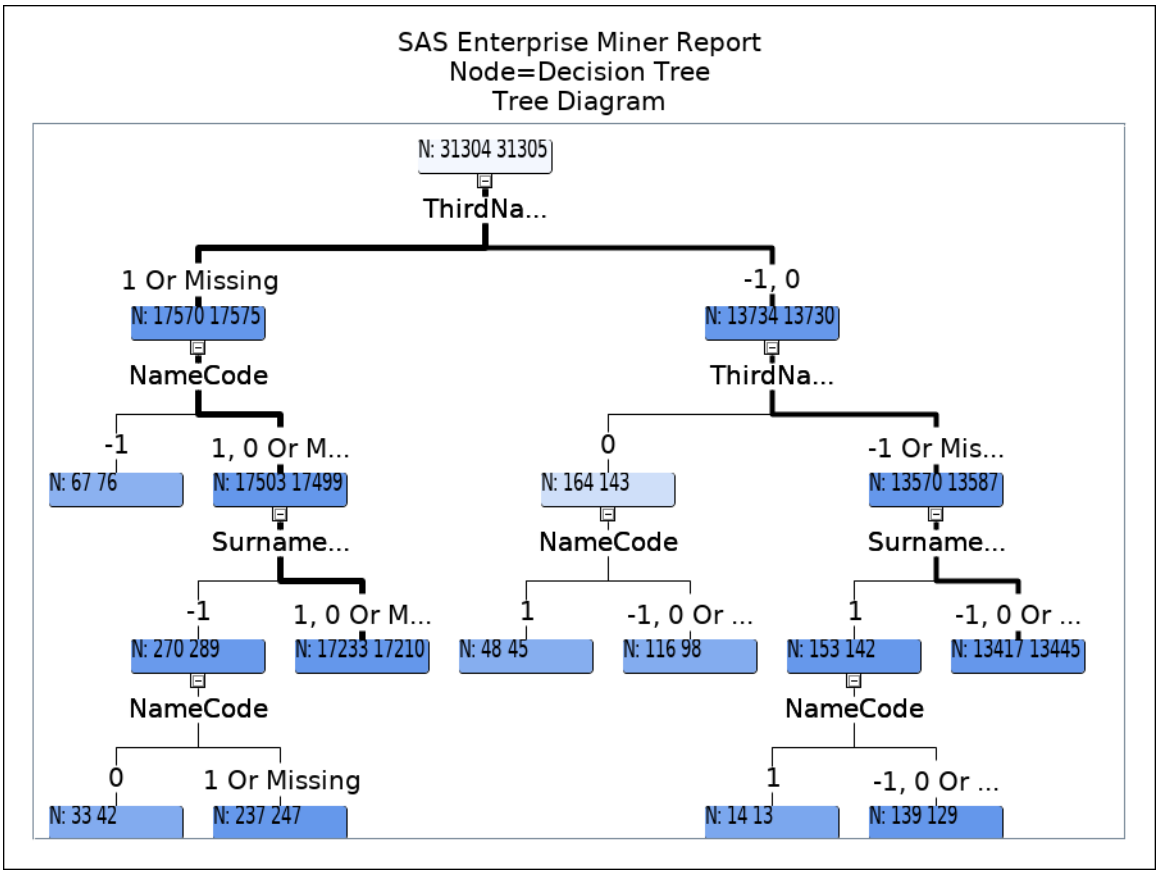
Node=Decision Tree
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode
ID	INTERVAL	1	_dataobs_

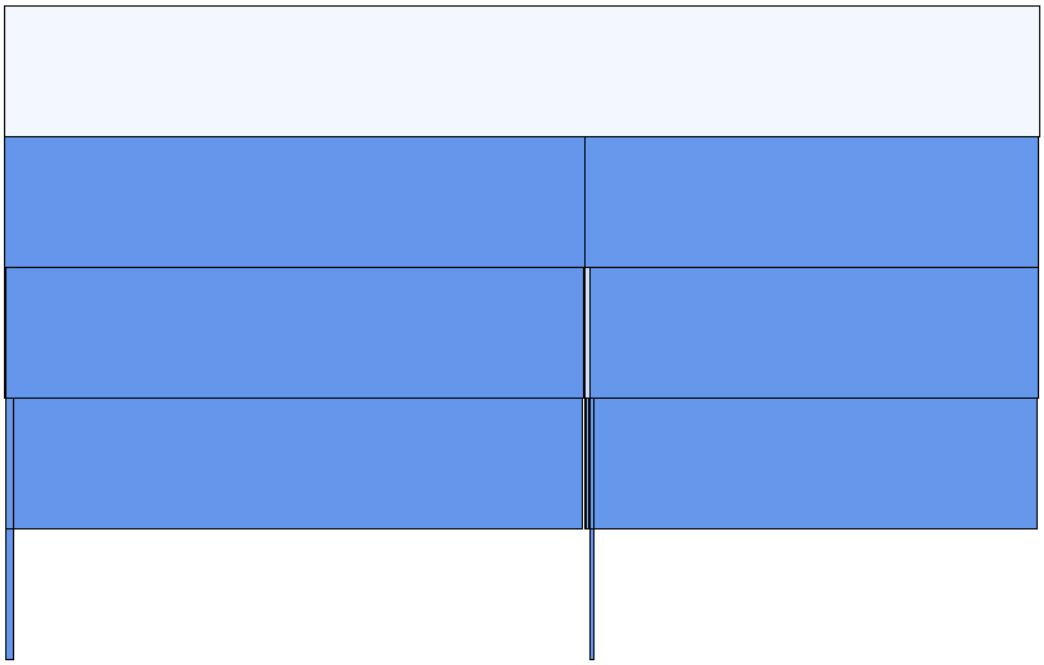
Node=Decision Tree
Model Fit Statistics

Target=GenderCode Target Label=GenderCode

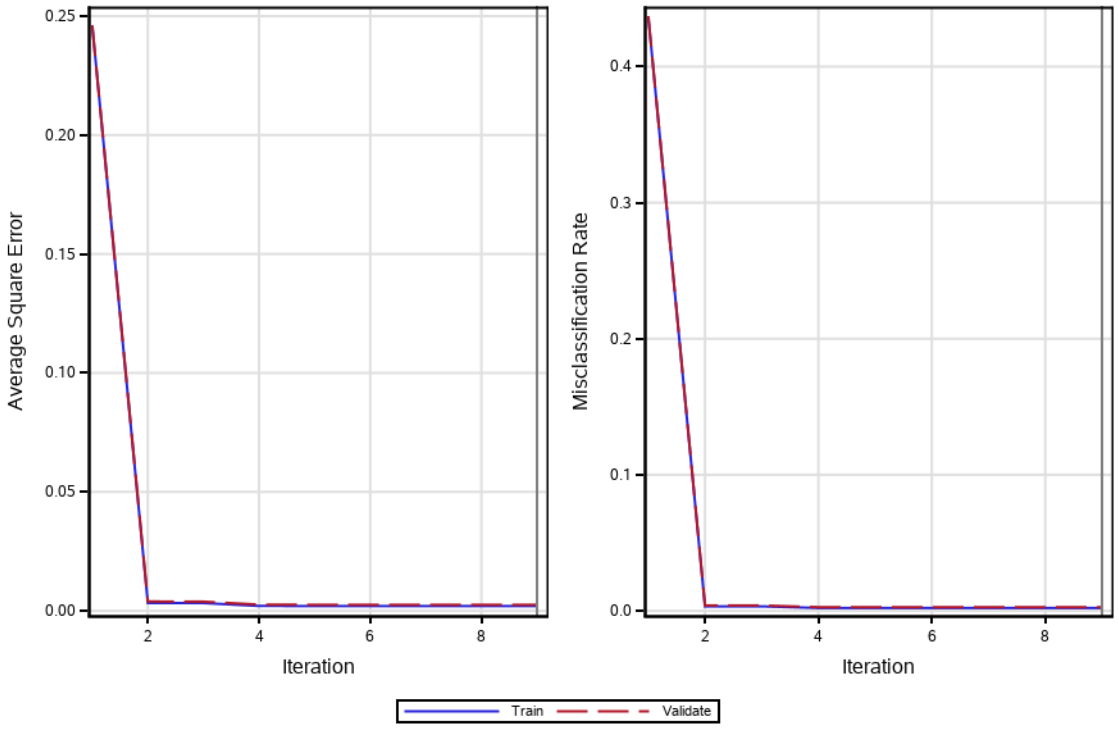
Label of Statistic	Train	Validation	Test
Sum of Frequencies	31304.00	31305.00	.
Misclassification Rate	0.00	0.00	.
Maximum Absolute Error	1.00	1.00	.
Sum of Squared Errors	126.17	159.92	.
Average Squared Error	0.00	0.00	.
Root Average Squared Error	0.04	0.05	.
Divisor for ASE	62608.00	62610.00	.
Total Degrees of Freedom	31304.00	.	.

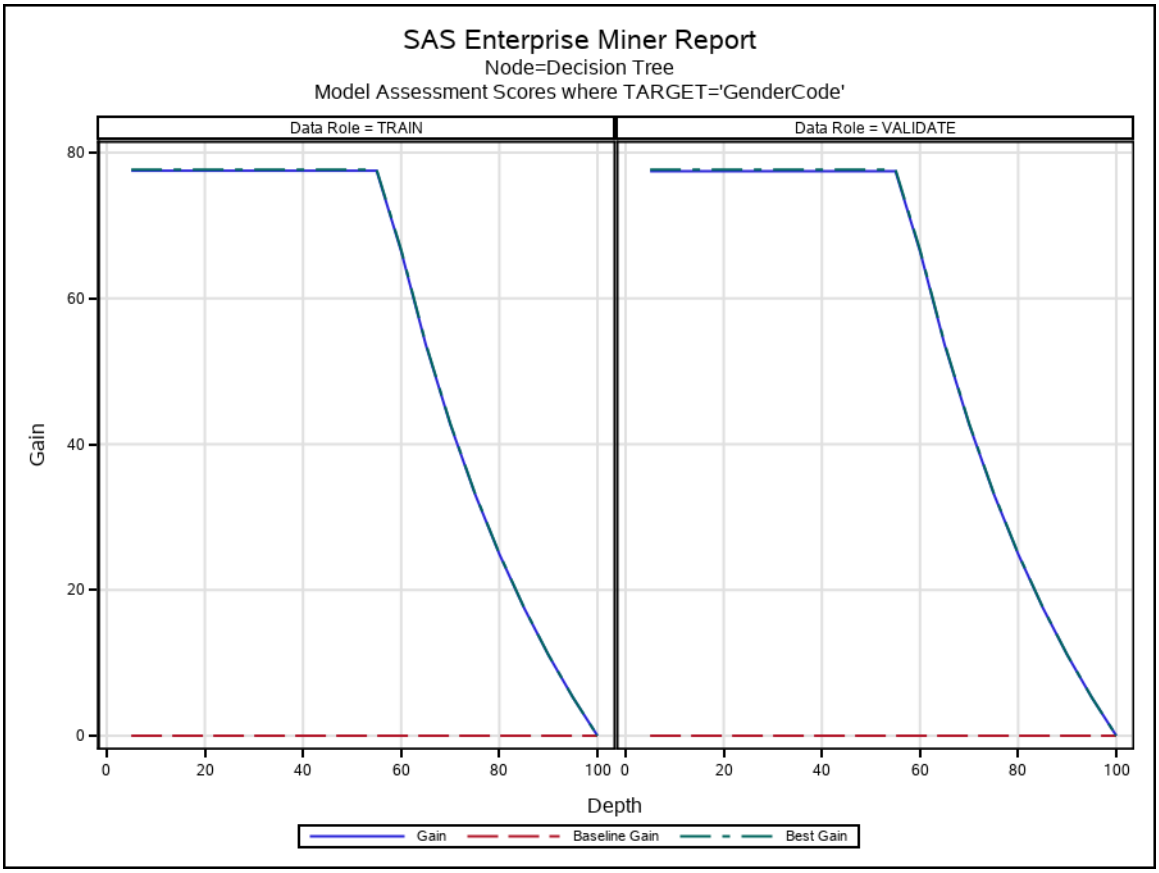


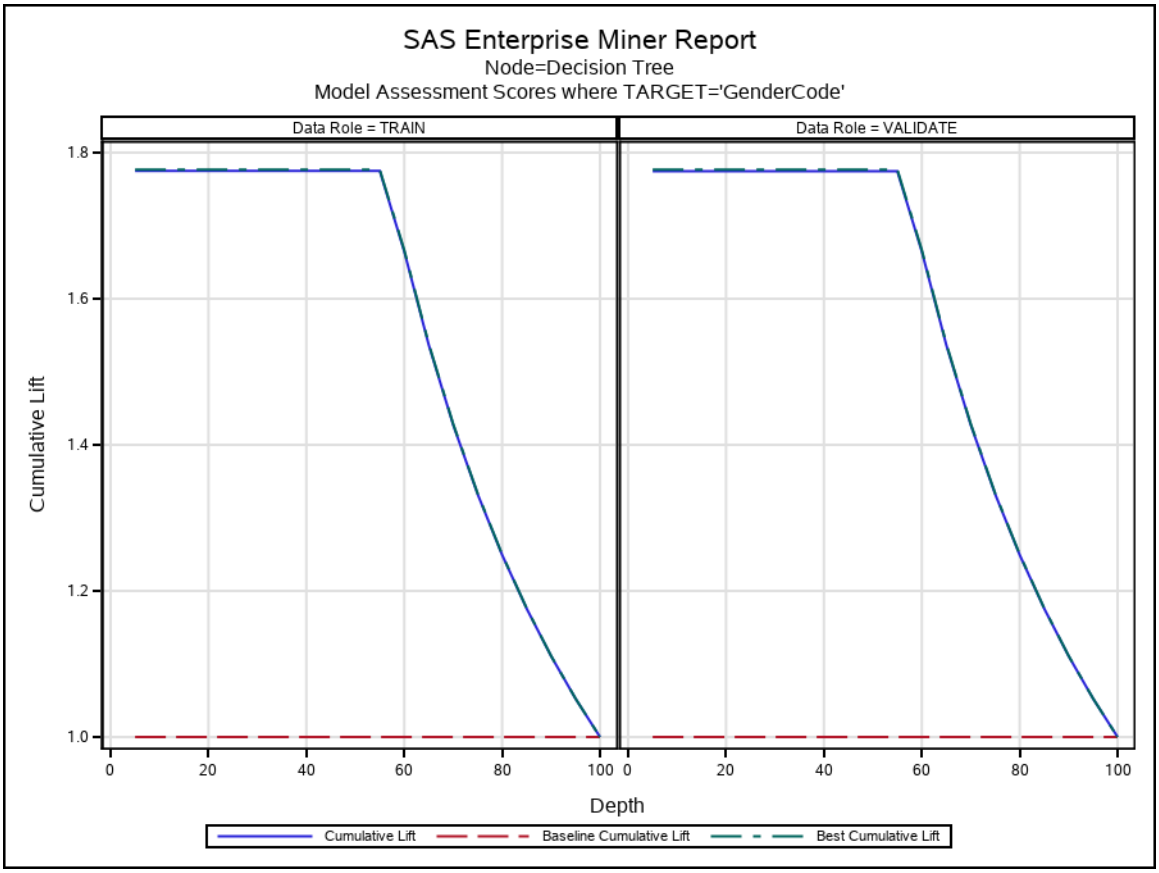
SAS Enterprise Miner Report
Node=Decision Tree
Treemap

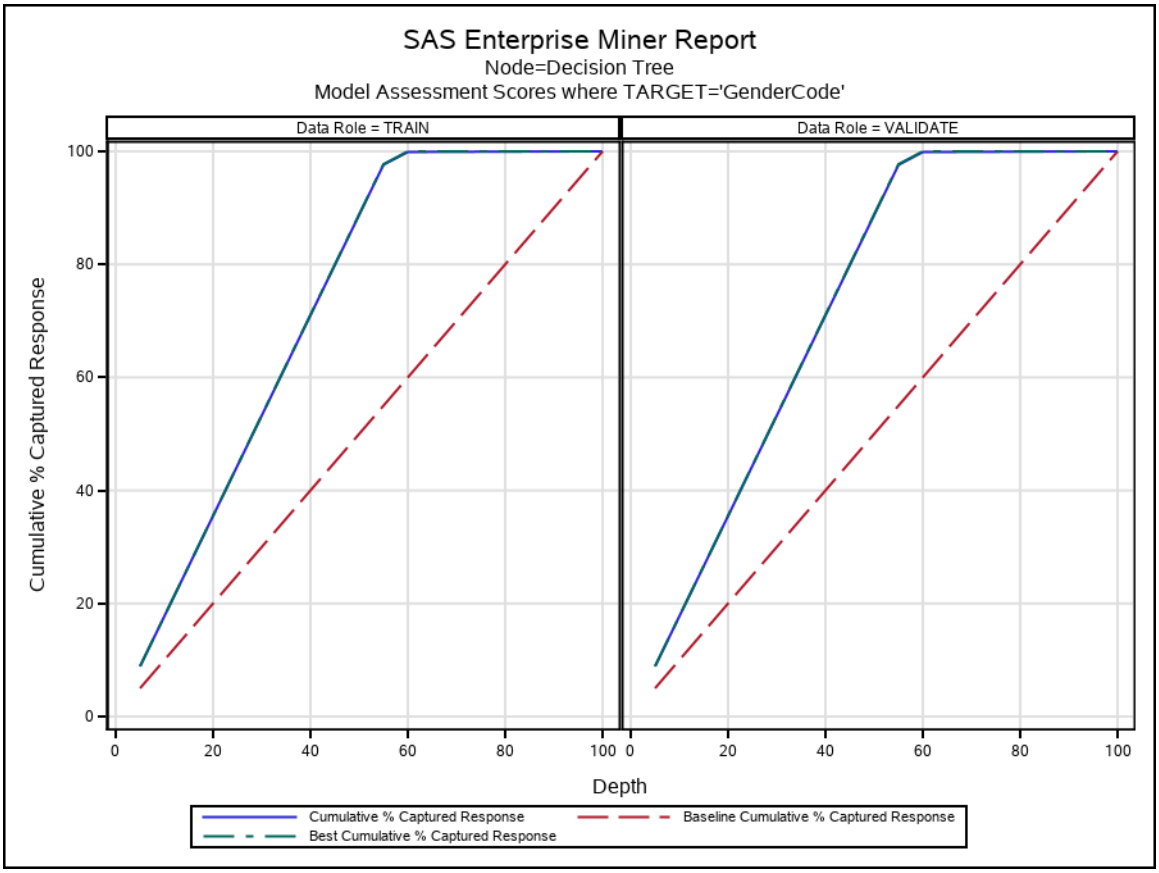


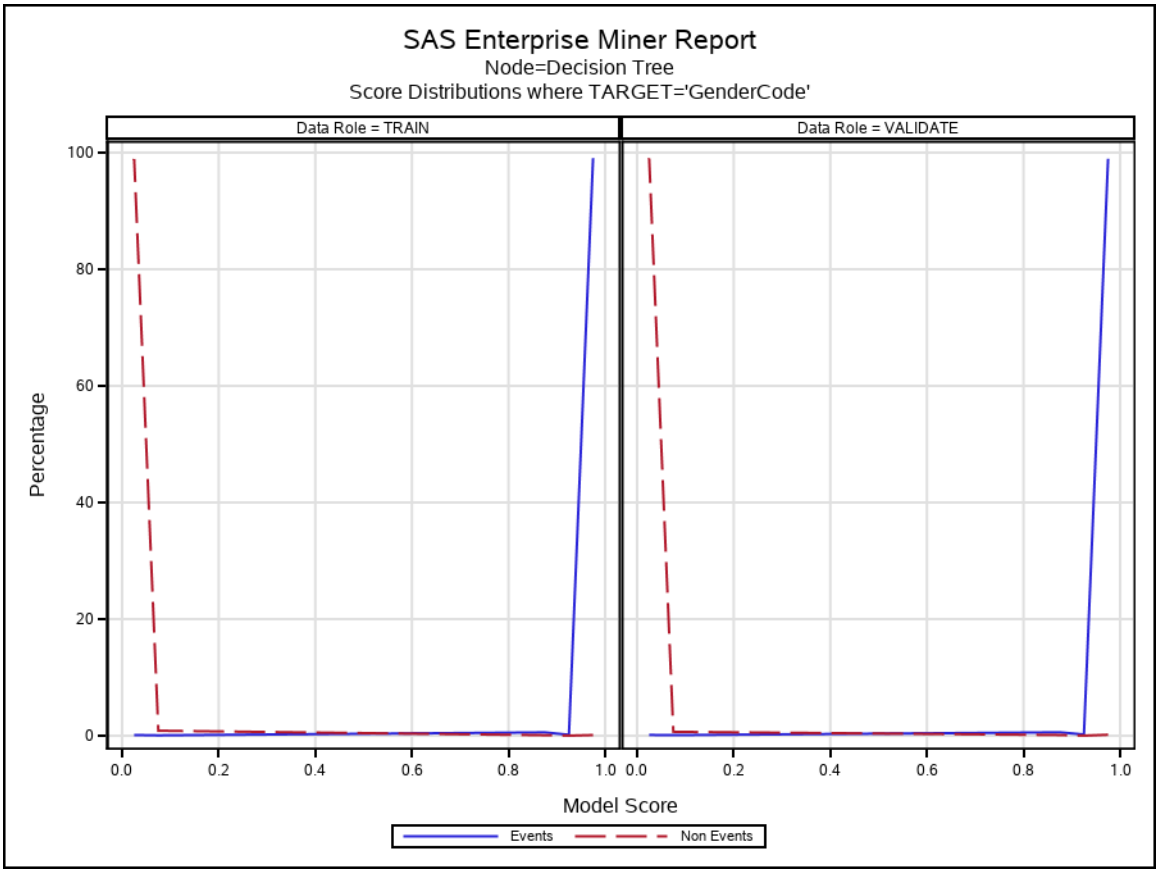
SAS Enterprise Miner Report
Node=Decision Tree
Model Iteration Plots

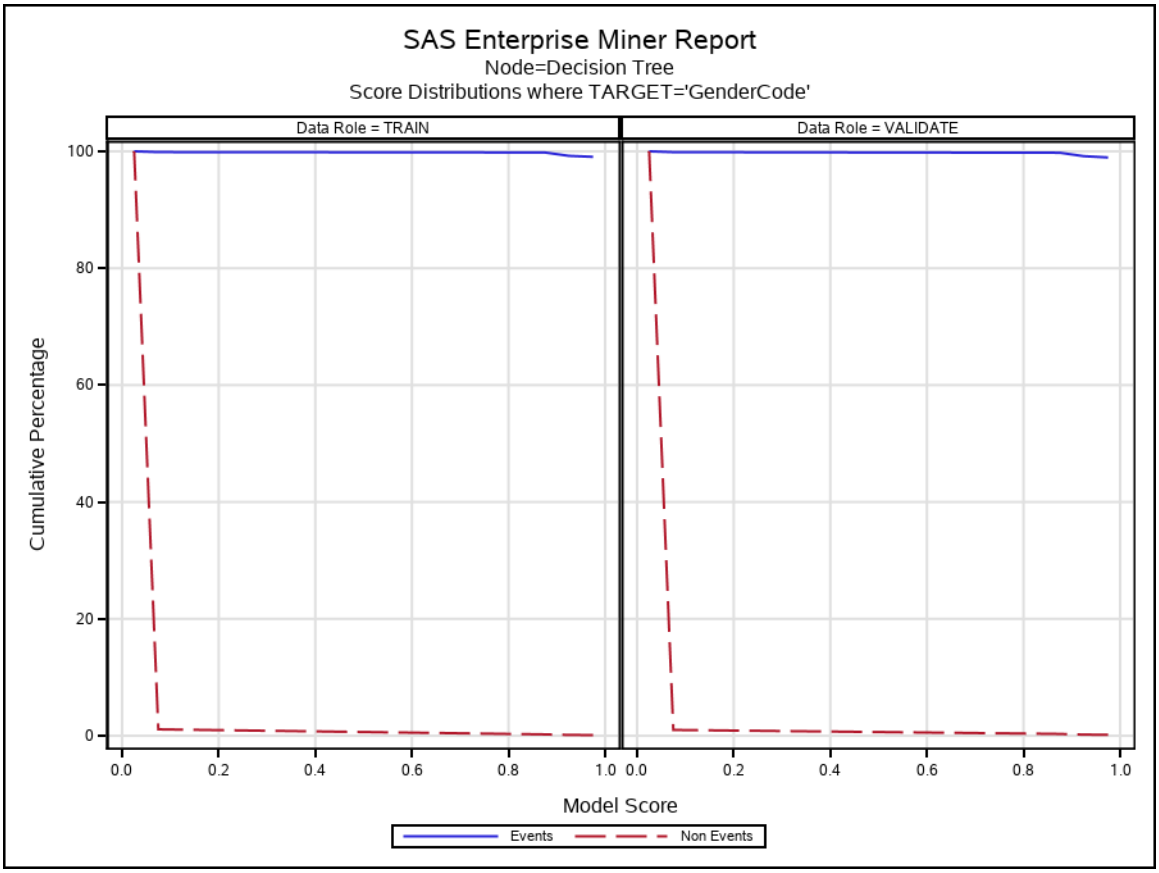



SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Gain
Depth
Gain
Baseline Gain
Best Gain


SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift


SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative % Captured Response
Depth
Cumulative % Captured Response
Baseline Cumulative % Captured Response
Best Cumulative % Captured Response


SAS Enterprise Miner Report
Node=Decision Tree
Score Distributions where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Percentage
Model Score
Events
Non Events



Node=Decision Tree
Score Distributions

Target Variable=GenderCode 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	17454	99.0579	0.1169	99.058	0.117
0.90-0.95	30	0.1703	0.0219	99.228	0.139
0.85-0.90	102	0.5789	0.0950	99.807	0.234
0.05-0.10	12	0.0681	0.8623	99.875	1.096
0.00-0.05	22	0.1249	98.9038	100.000	100.000

Target Variable=GenderCode Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	17434	98.9500	0.1681	98.950	0.168
0.90-0.95	39	0.2214	0.0219	99.171	0.190
0.85-0.90	104	0.5903	0.1242	99.762	0.314
0.05-0.10	18	0.1022	0.6795	99.864	0.994
0.00-0.05	24	0.1362	99.0063	100.000	100.000

SAS Enterprise Miner Report

Node=Impute
Summary

Node id = Impt
Node label = Impute
Meta path = Ids => Part => Impt
Notes =

Node=Impute
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Impute		IndicatorRole	REJECTED		MinCatSize	5	
ABWTuning	9		IndicatorSource	IMPUTED		Normalize	Y	
AHUBERTuning	1.5		LeafSize	5		Nrules	5	
AWAVETuning	6.2831853072		MaxPctMissing	50		Nsurrs	2	
DefaultChar			Maxbranch	2		RandomSeed	12345	
DefaultNum	.		Maxdepth	6		ReplaceVariable	N	
DistributionMissing	N		MethodClass	TREE	COUNT	SpacingProportion	90	
HideVariable	Y		MethodInterval	TREE	MEAN	Splitsize	.	
ImputeNoMissing	N		MethodTargetClass	NONE		ValidateTestMissing	N	
Indicator	UNIQUE	NONE	MethodTargetInterval	NONE				

Node=Impute
Variable Summary

Role	Level	Frequency Count	Name
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode

SAS Enterprise Miner Report

Node=Regression Misclassification Summary

Node id = Reg2
Node label = Regression Misclassification
Meta path = Ids => Part => Impt => Reg2
Notes =

Node=Regression Misclassification 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	XMISC	DEFAULT
AbsGValue	0.00001		Interactions			SelectionDefault	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
ClParm	N		MaxCPUTime	1 HOUR		SlEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SlStay	0.05	
CorB	N		MaxIterations	.		Start	0	
CovB	N		MaxStep	.		StepOutput	N	
Covout	N		MinResourceUse	N		Stop	0	
Details	N		ModelDefaults	Y		SuppressIntercept	N	
Error	LOGISTIC		ModelSelection	STEPWISE	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Misclassification Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode

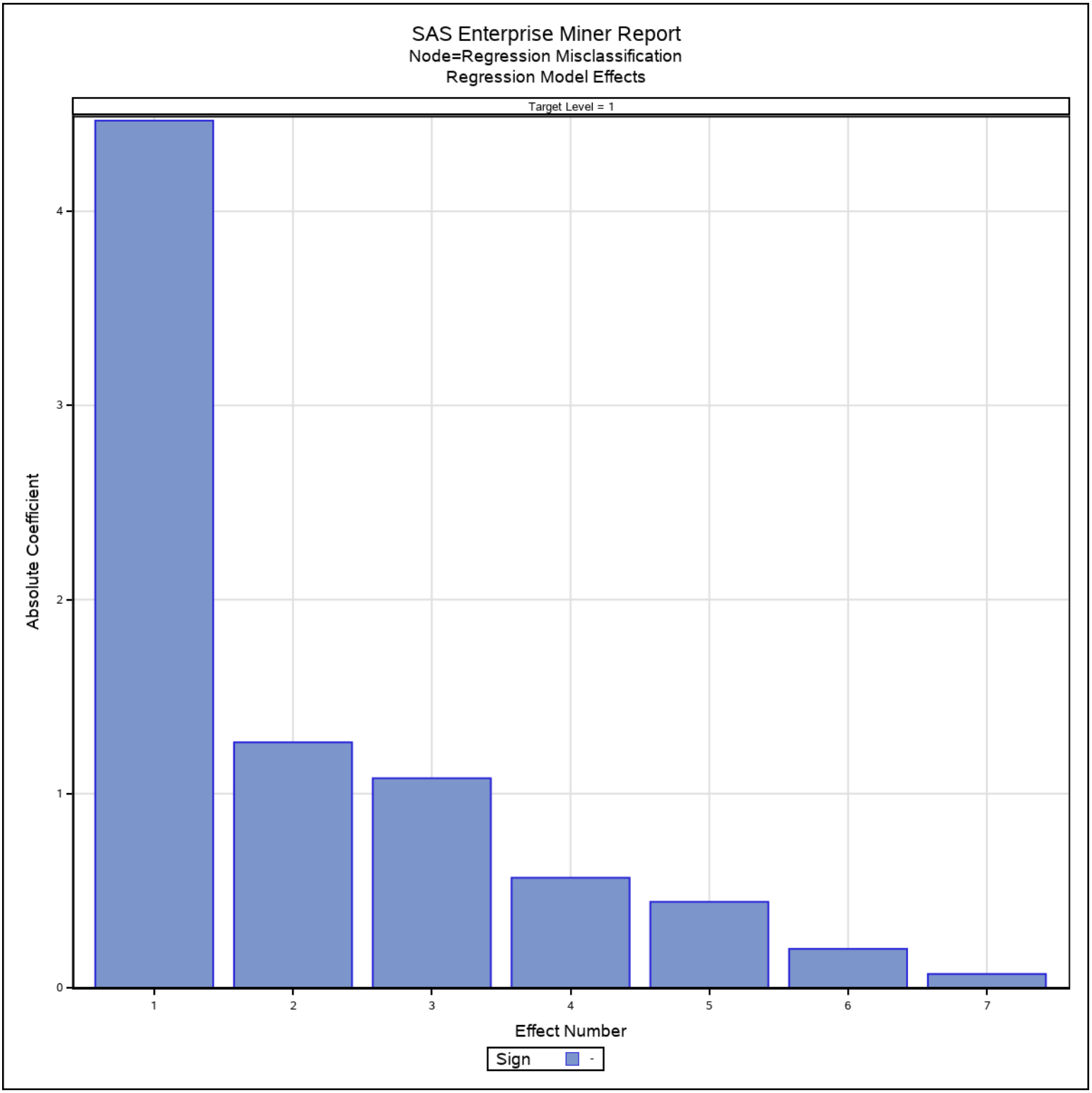
Node=Regression Misclassification Model Fit Statistics

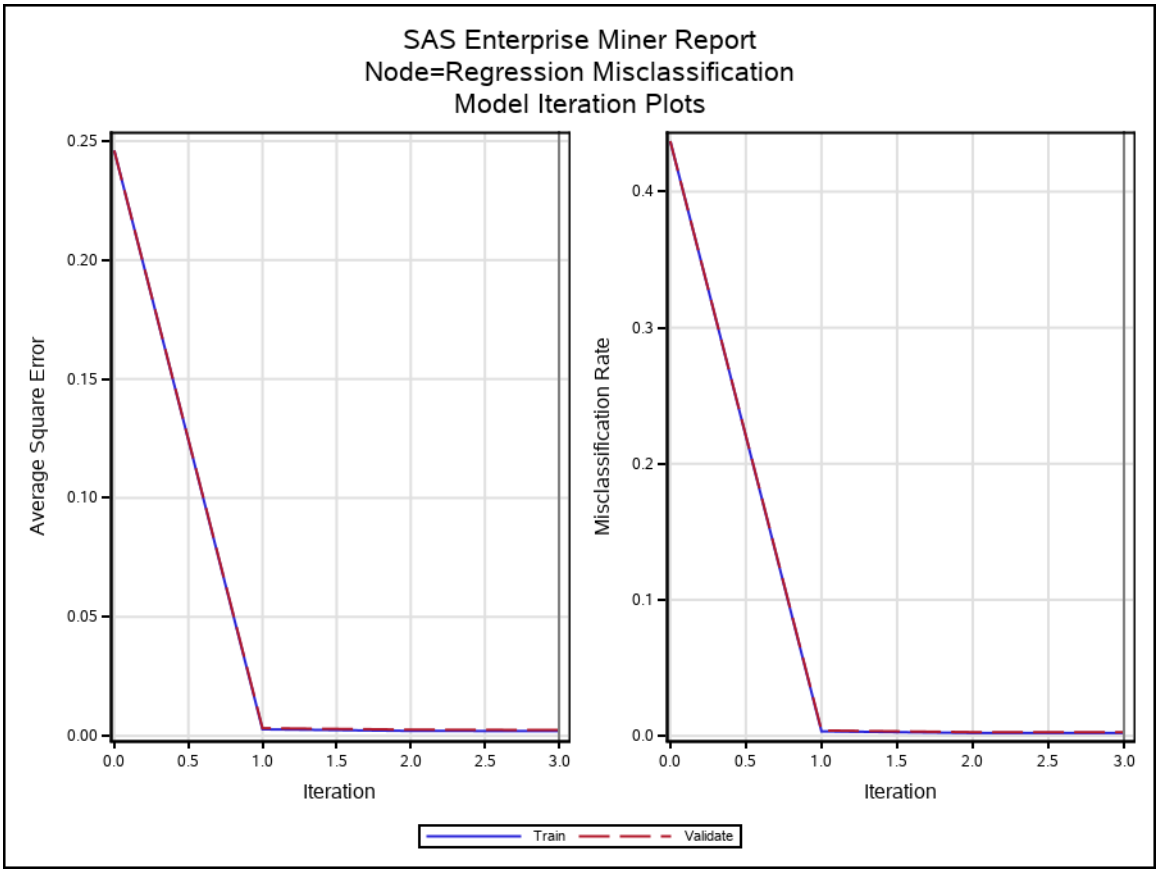
Target=GenderCode Target Label=GenderCode

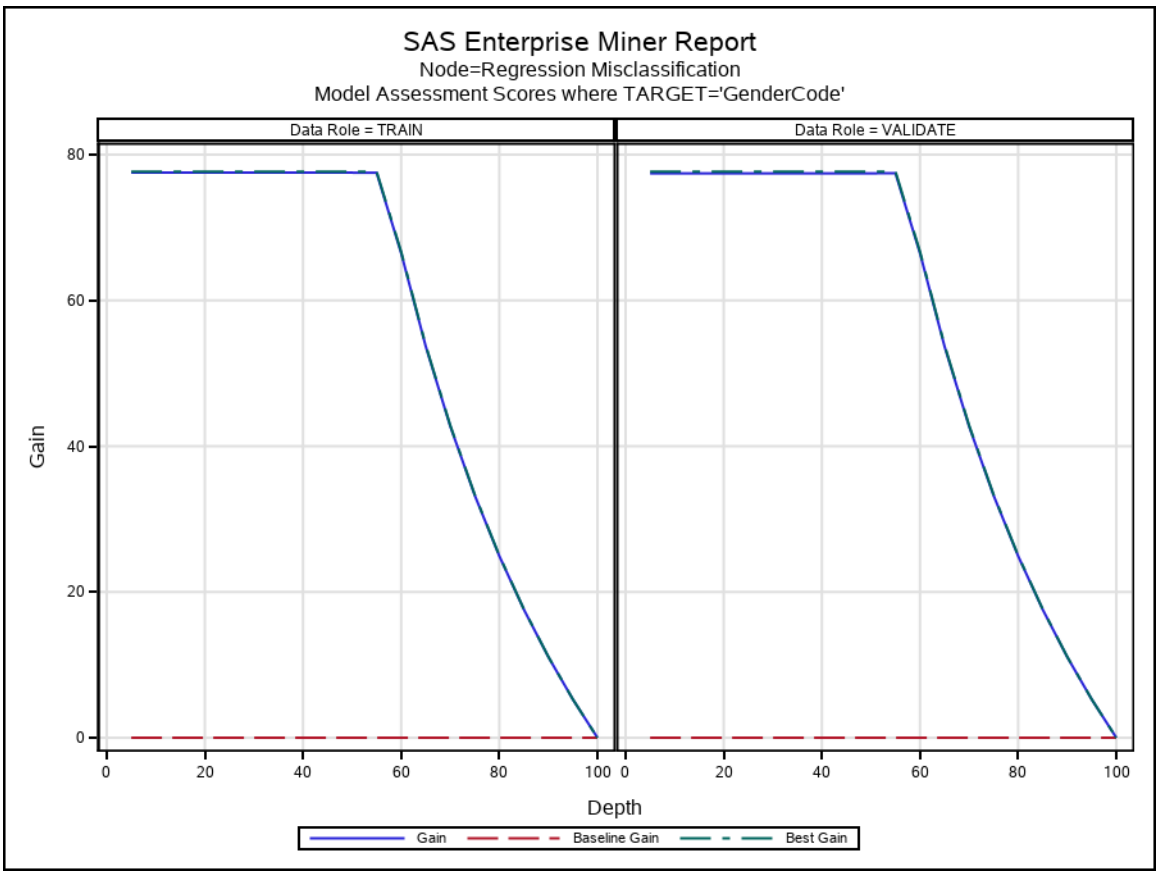
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	787.42	.	.
Average Squared Error	0.00	0.00	.
Average Error Function	0.01	0.02	.
Degrees of Freedom for Error	31297.00	.	.
Model Degrees of Freedom	7.00	.	.
Total Degrees of Freedom	31304.00	.	.
Divisor for ASE	62608.00	62610.00	.

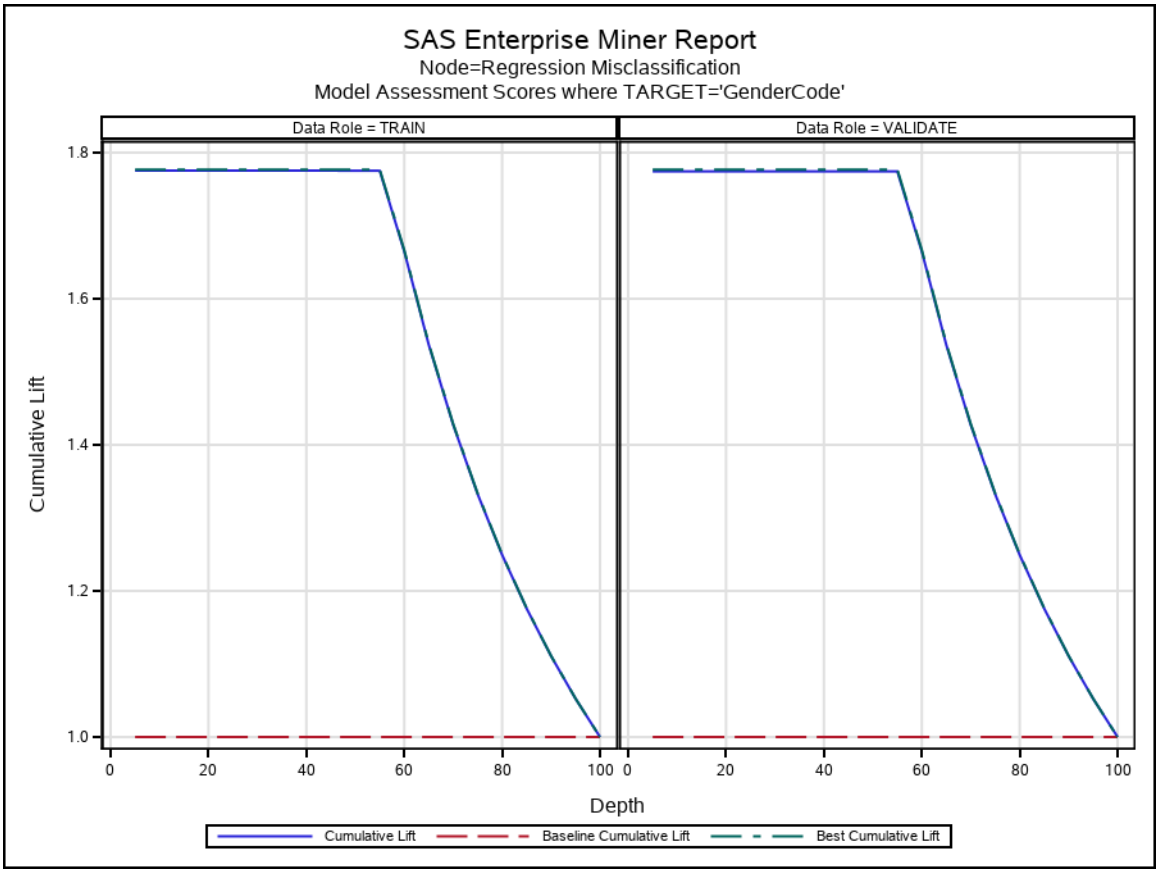
Target=GenderCode Target Label=GenderCode

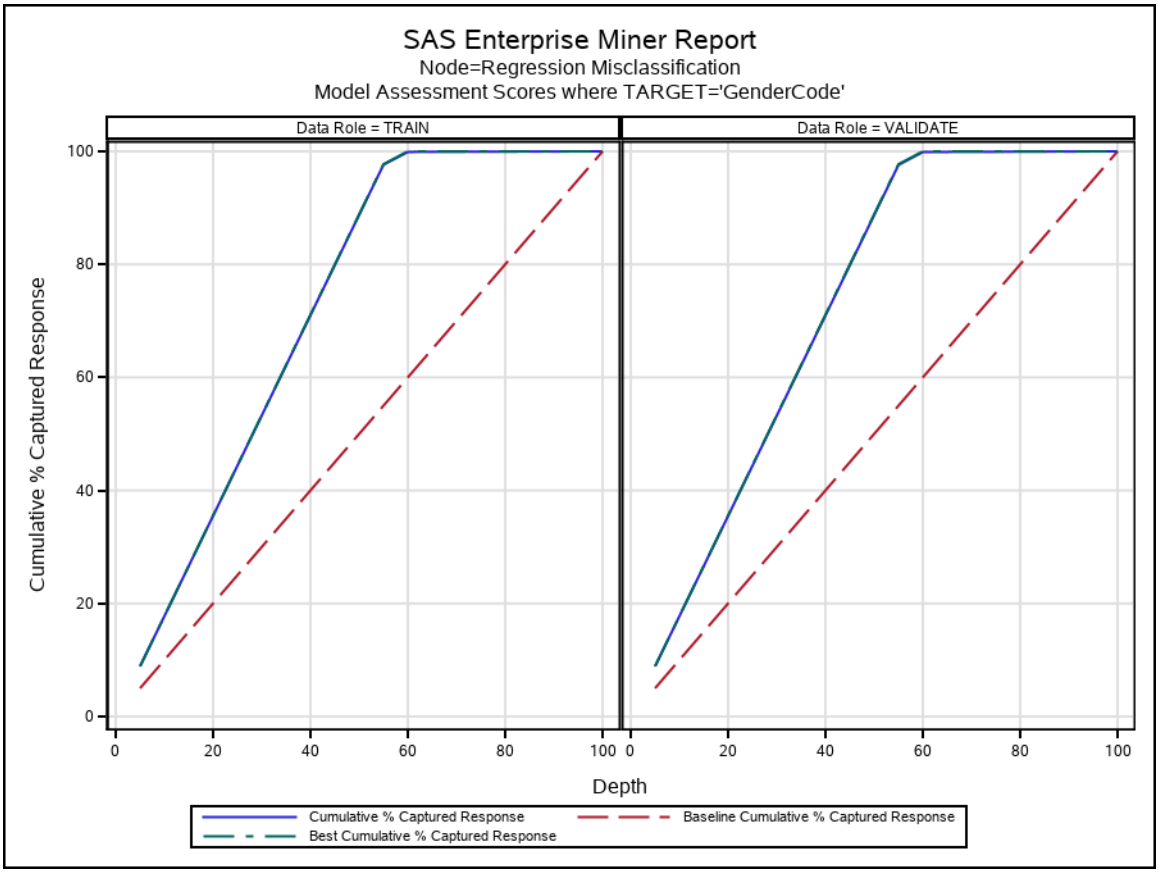
Label of Statistic	Train	Validation	Test
Error Function	773.42	939.60	.
Final Prediction Error	0.00	.	.
Maximum Absolute Error	1.00	1.00	.
Mean Square Error	0.00	0.00	.
Sum of Frequencies	31304.00	31305.00	.
Number of Estimate Weights	7.00	.	.
Root Average Sum of Squares	0.04	0.05	.
Root Final Prediction Error	0.04	.	.
Root Mean Squared Error	0.04	0.05	.
Schwarz's Bayesian Criterion	845.88	.	.
Sum of Squared Errors	126.14	153.33	.
Sum of Case Weights Times Freq	62608.00	62610.00	.
Misclassification Rate	0.00	0.00	.

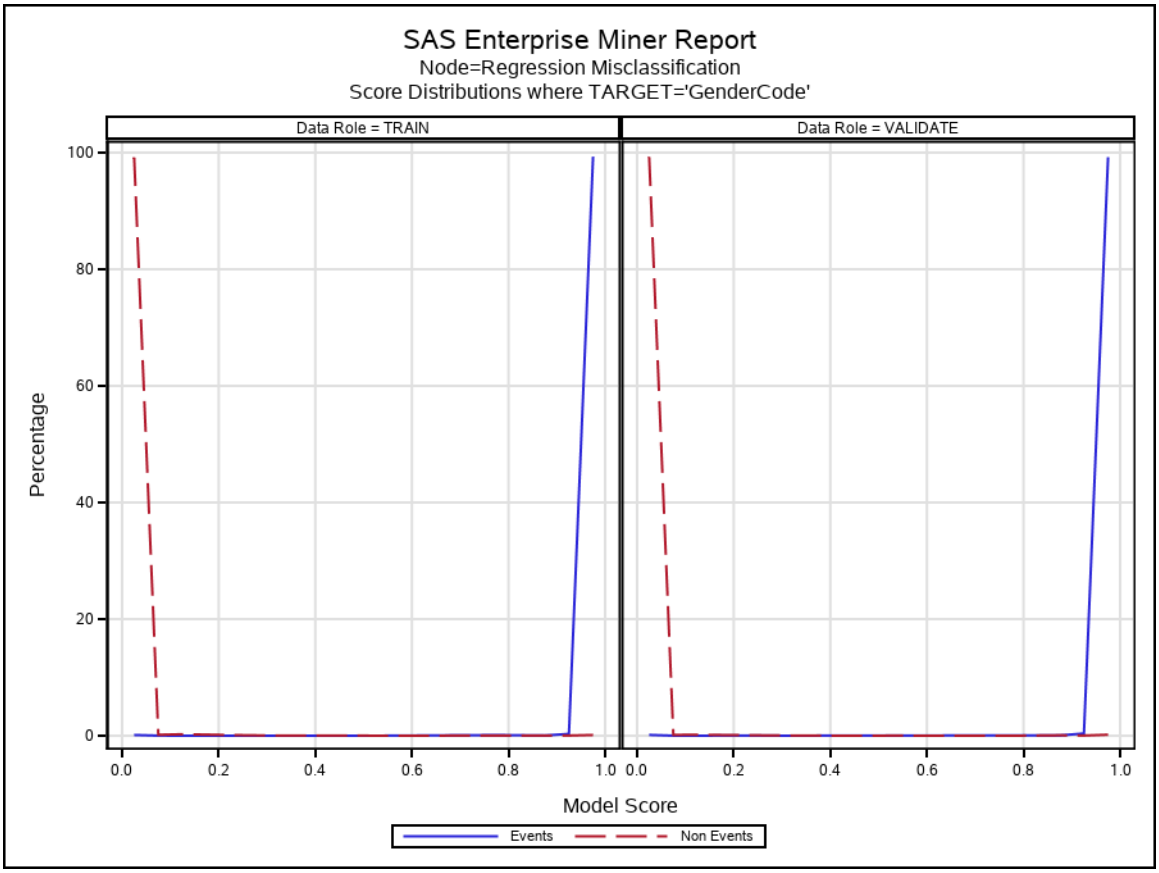

SAS Enterprise Miner Report
Node=Regression Misclassification
Regression Model Effects
Target Level = 1
Absolute Coefficient
0
1
2
3
4
1
2
3
4
5
6
7
Effect Number
Sign
-

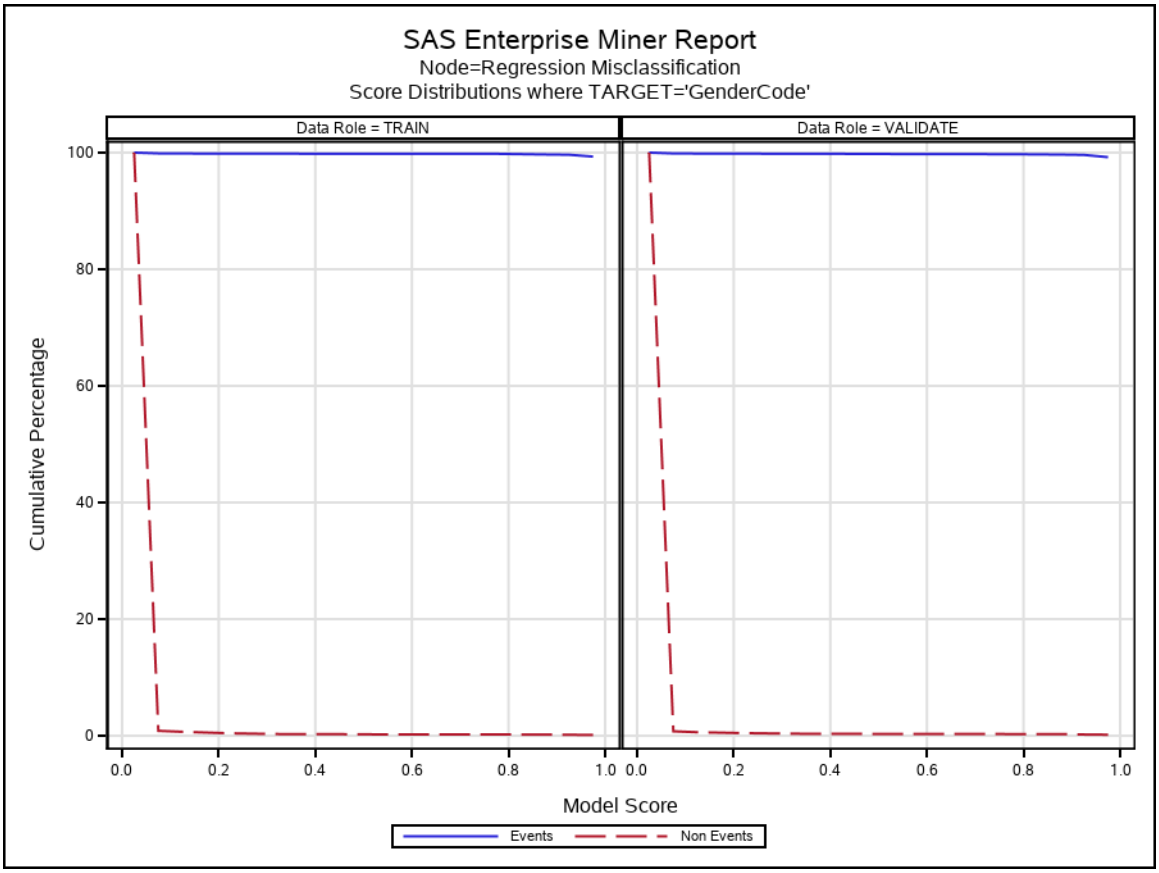

SAS Enterprise Miner Report
Node=Regression Misclassification
Model Iteration Plots
Average Square Error
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Iteration
Misclassification Rate
0.4
0.3
0.2
0.1
0.0
Iteration
Train
Validate


SAS Enterprise Miner Report
Node=Regression Misclassification
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Gain
80
60
40
20
0
0
20
40
60
80
100
Depth
Gain
Baseline Gain
Best Gain


SAS Enterprise Miner Report
Node=Regression Misclassification
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
1.8
1.6
1.4
1.2
1.0
0
20
40
60
80
100
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift


SAS Enterprise Miner Report
Node=Regression Misclassification
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative % Captured Response
100
80
60
40
20
0
0
20
40
60
80
100
Depth
Cumulative % Captured Response
Baseline Cumulative % Captured Response
Best Cumulative % Captured Response





Node=Regression Misclassification
Score Distributions

Target Variable=GenderCode 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	17500	99.3190	0.1315	99.319	0.132
0.90-0.95	56	0.3178	0.0365	99.637	0.168
0.85-0.90	8	0.0454	0.0292	99.682	0.197
0.75-0.80	20	0.1135	0.0219	99.796	0.219
0.50-0.55	2	0.0114	0.0146	99.807	0.234
0.45-0.50	1	0.0057	0.0292	99.813	0.263
0.30-0.35	1	0.0057	0.0292	99.818	0.292
0.20-0.25	3	0.0170	0.1242	99.835	0.417
0.10-0.15	2	0.0114	0.2631	99.847	0.680
0.05-0.10	4	0.0227	0.1608	99.869	0.840
0.00-0.05	23	0.1305	99.1596	100.000	100.000

Target Variable=GenderCode Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	17481	99.2168	0.1754	99.217	0.175
0.90-0.95	69	0.3916	0.0365	99.608	0.212
0.85-0.90	10	0.0568	0.0804	99.665	0.292
0.75-0.80	11	0.0624	0.0000	99.728	0.292
0.50-0.55	6	0.0341	0.0219	99.762	0.314
0.45-0.50	4	0.0227	0.0073	99.784	0.321
0.30-0.35	3	0.0170	0.0292	99.801	0.351
0.20-0.25	4	0.0227	0.0950	99.824	0.446
0.10-0.15	3	0.0170	0.1607	99.841	0.606
0.05-0.10	3	0.0170	0.1534	99.858	0.760
0.00-0.05	25	0.1419	99.2401	100.000	100.000

SAS Enterprise Miner Report

Node=Regression on Error Summary

Node id = Reg
Node label = Regression on Error
Meta path = Ids => Part => Impt => Reg
Notes =

Node=Regression on Error 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	VERROR	DEFAULT
AbsGValue	0.00001		Interactions			SelectionDefault	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
ClParm	N		MaxCPUTime	1 HOUR		SlEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SlStay	0.05	
CorB	N		MaxIterations	.		Start	0	
CovB	N		MaxStep	.		StepOutput	N	
Covout	N		MinResourceUse	N		Stop	0	
Details	N		ModelDefaults	Y		SuppressIntercept	N	
Error	LOGISTIC		ModelSelection	STEPWISE	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression on Error Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode
INPUT	NOMINAL	3	NameCode SurnameCode ThirdNameCode

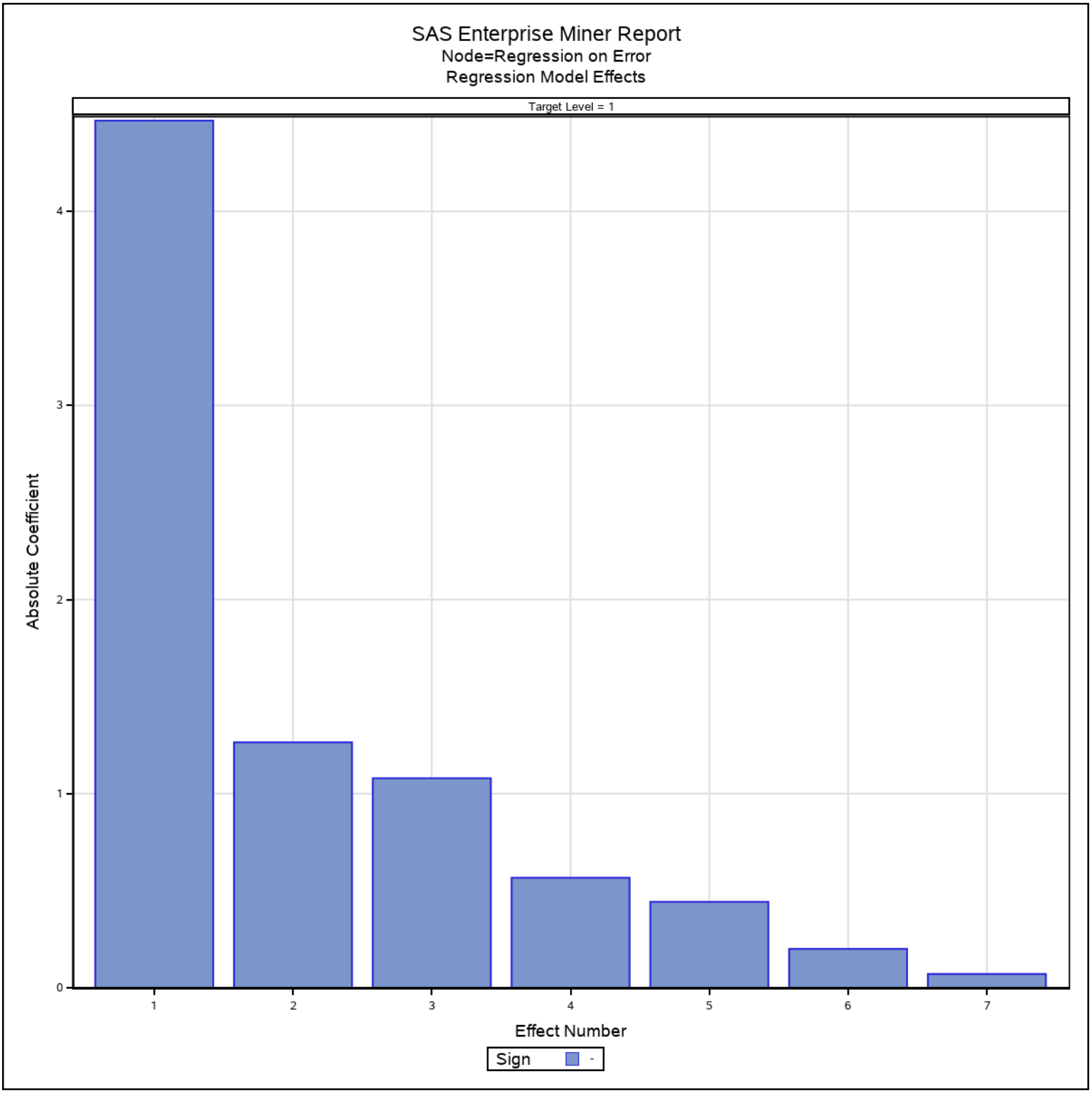
Node=Regression on Error Model Fit Statistics

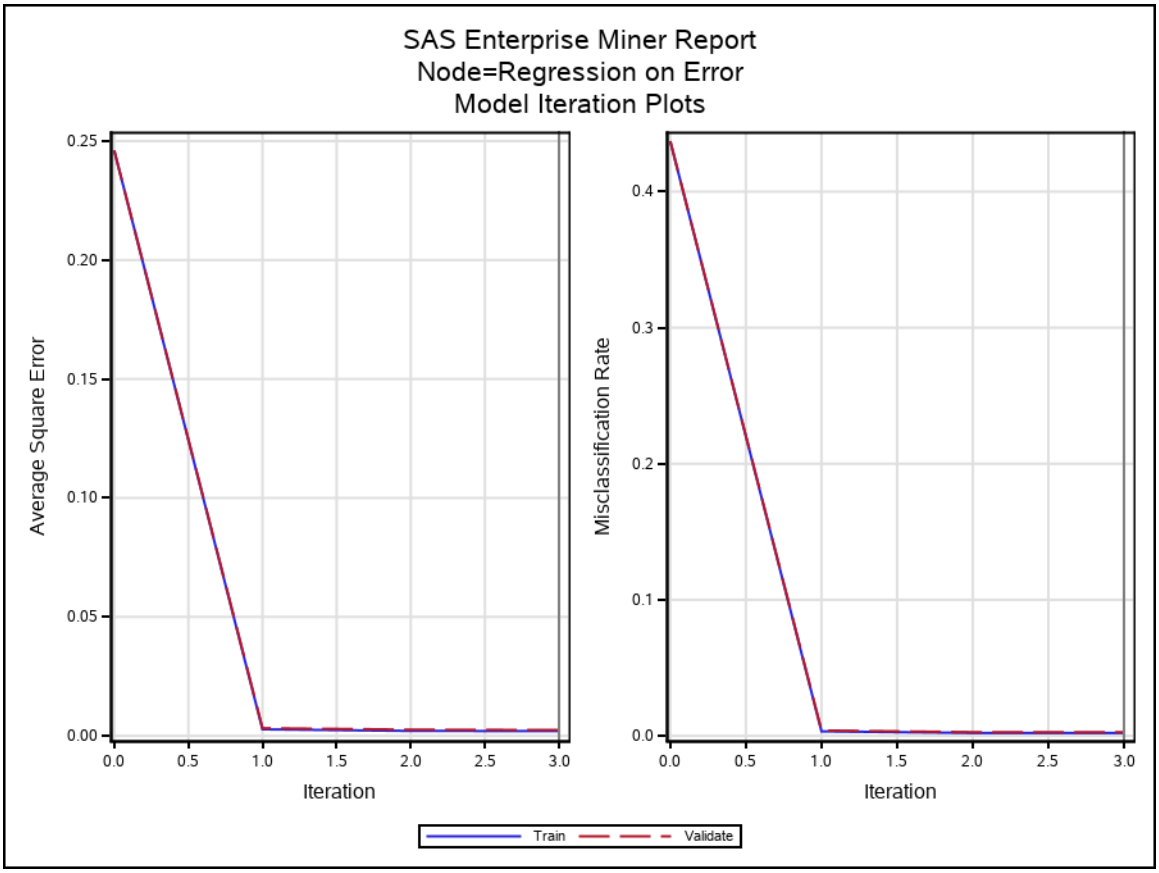
Target=GenderCode Target Label=GenderCode

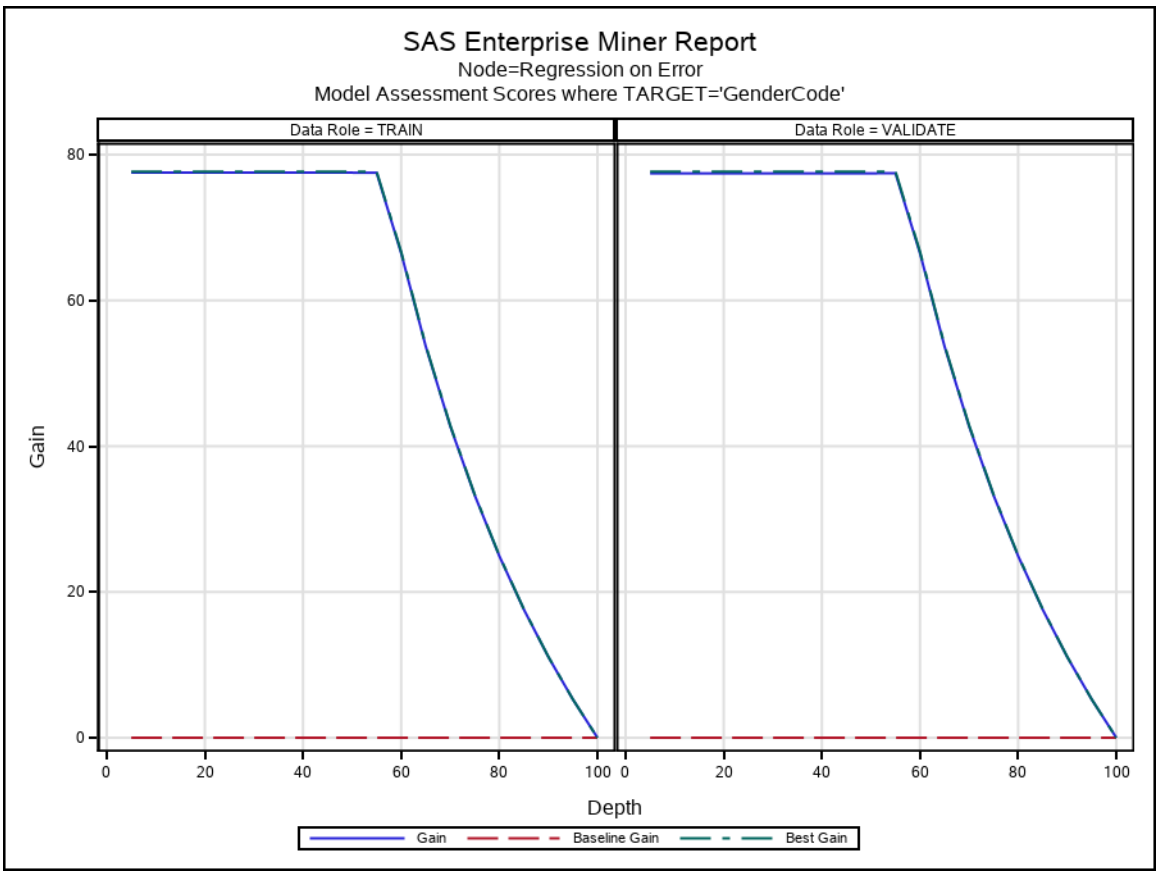
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	787.42	.	.
Average Squared Error	0.00	0.00	.
Average Error Function	0.01	0.02	.
Degrees of Freedom for Error	31297.00	.	.
Model Degrees of Freedom	7.00	.	.
Total Degrees of Freedom	31304.00	.	.
Divisor for ASE	62608.00	62610.00	.

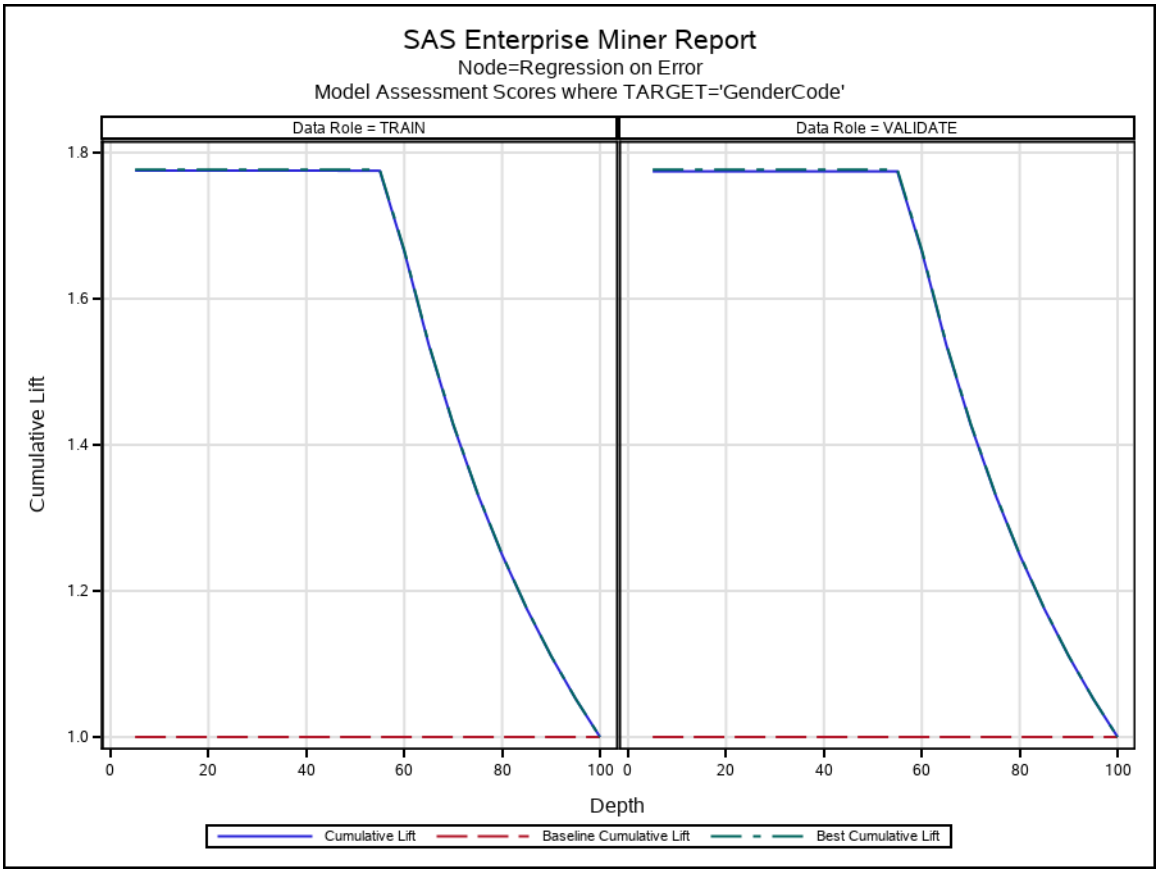
Target=GenderCode Target Label=GenderCode

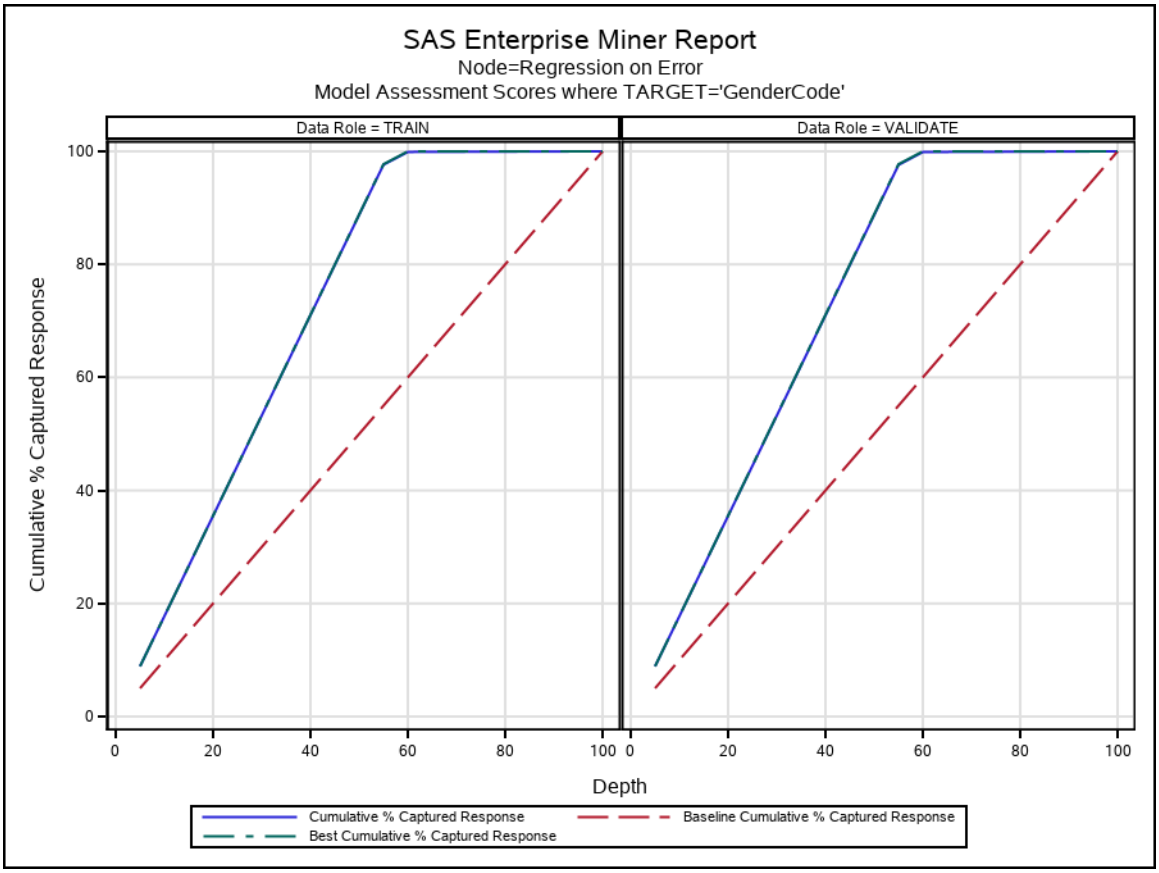
Label of Statistic	Train	Validation	Test
Error Function	773.42	939.60	.
Final Prediction Error	0.00	.	.
Maximum Absolute Error	1.00	1.00	.
Mean Square Error	0.00	0.00	.
Sum of Frequencies	31304.00	31305.00	.
Number of Estimate Weights	7.00	.	.
Root Average Sum of Squares	0.04	0.05	.
Root Final Prediction Error	0.04	.	.
Root Mean Squared Error	0.04	0.05	.
Schwarz's Bayesian Criterion	845.88	.	.
Sum of Squared Errors	126.14	153.33	.
Sum of Case Weights Times Freq	62608.00	62610.00	.
Misclassification Rate	0.00	0.00	.

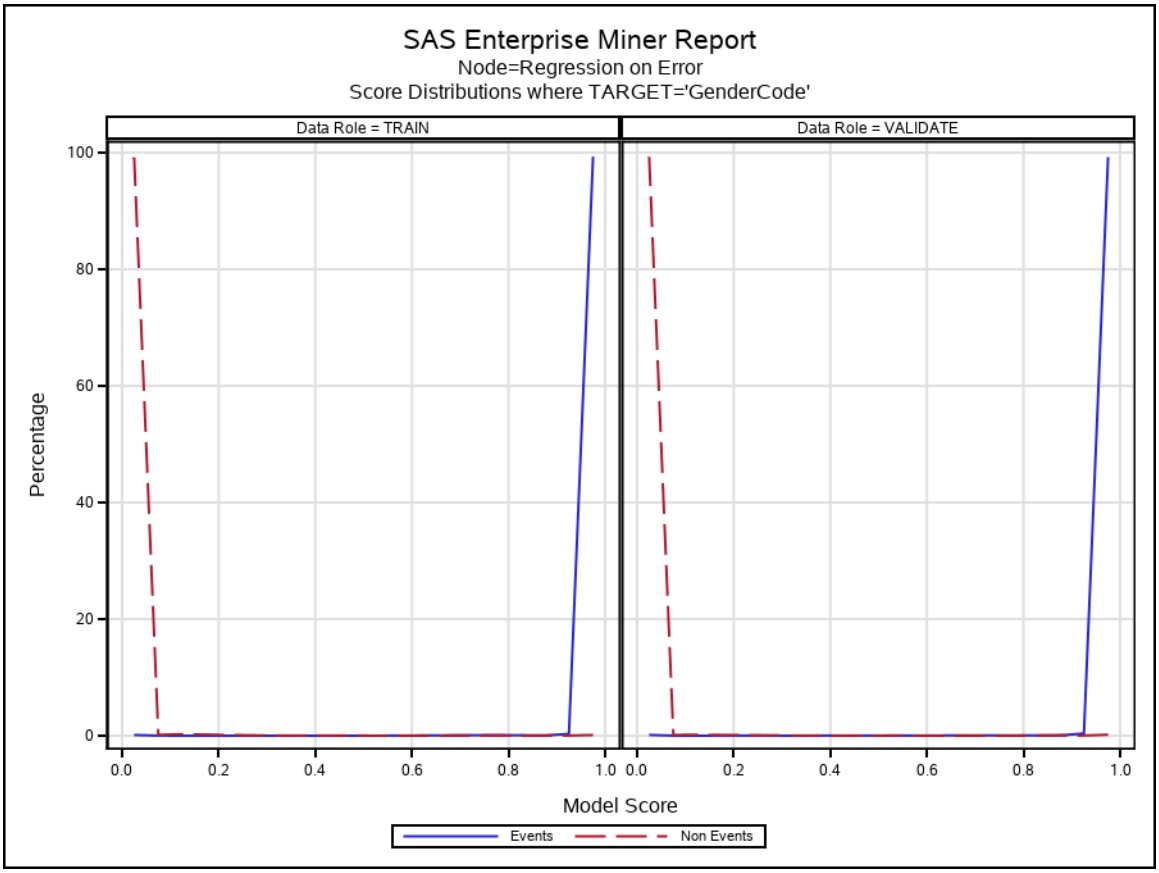

SAS Enterprise Miner Report
Node=Regression on Error
Regression Model Effects
Target Level = 1
Absolute Coefficient
0
1
2
3
4
1
2
3
4
5
6
7
Effect Number
Sign
-

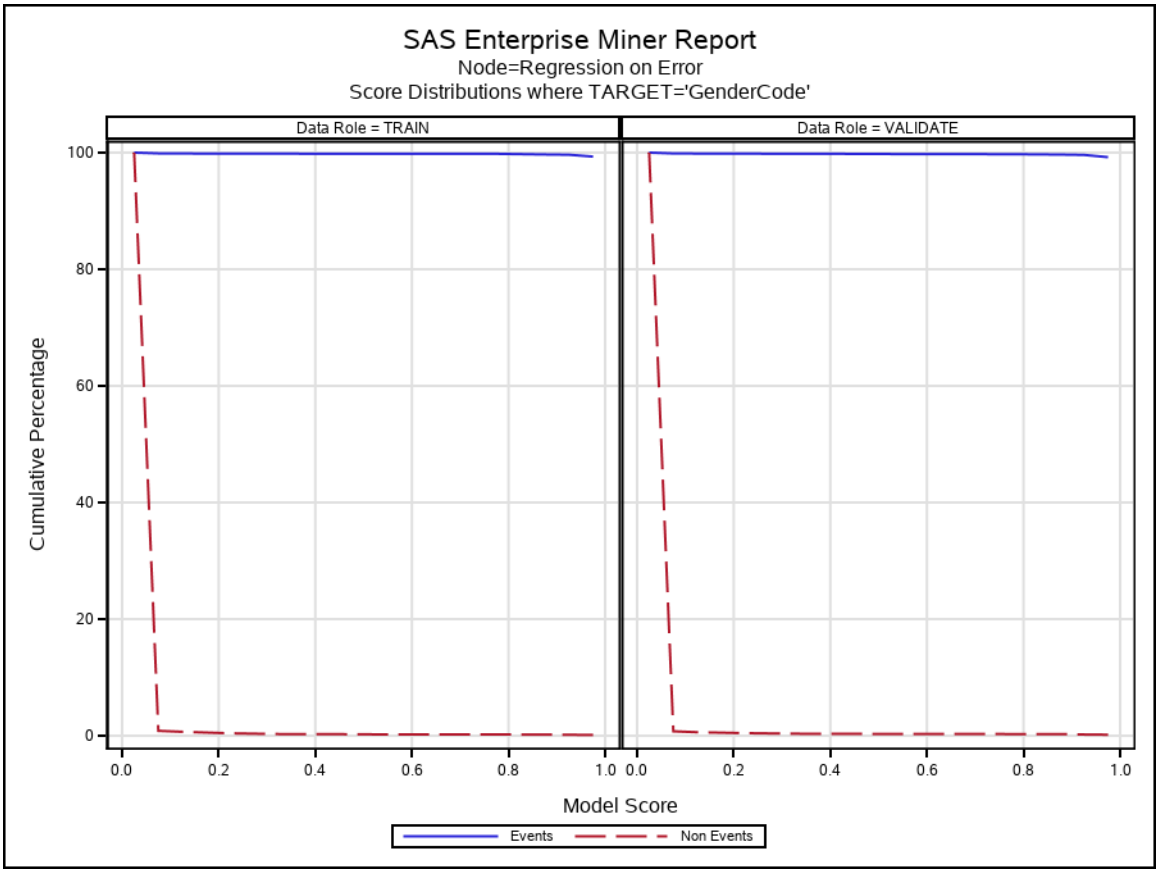

SAS Enterprise Miner Report
Node=Regression on Error
Model Iteration Plots
Average Square Error
0.25
0.20
0.15
0.10
0.05
0.00
0.0
0.5
1.0
1.5
2.0
2.5
3.0
Iteration
Misclassification Rate
0.4
0.3
0.2
0.1
0.0
Iteration
Train
Validate


SAS Enterprise Miner Report
Node=Regression on Error
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Gain
80
60
40
20
0
0
20
40
60
80
100
Depth
Gain
Baseline Gain
Best Gain


SAS Enterprise Miner Report
Node=Regression on Error
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
1.8
1.6
1.4
1.2
1.0
0
20
40
60
80
100
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift


SAS Enterprise Miner Report
Node=Regression on Error
Model Assessment Scores where TARGET='GenderCode'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative % Captured Response
100
80
60
40
20
0
0
20
40
60
80
100
Depth
Cumulative % Captured Response
Baseline Cumulative % Captured Response
Best Cumulative % Captured Response





Node=Regression on Error
Score Distributions

Target Variable=GenderCode 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	17500	99.3190	0.1315	99.319	0.132
0.90-0.95	56	0.3178	0.0365	99.637	0.168
0.85-0.90	8	0.0454	0.0292	99.682	0.197
0.75-0.80	20	0.1135	0.0219	99.796	0.219
0.50-0.55	2	0.0114	0.0146	99.807	0.234
0.45-0.50	1	0.0057	0.0292	99.813	0.263
0.30-0.35	1	0.0057	0.0292	99.818	0.292
0.20-0.25	3	0.0170	0.1242	99.835	0.417
0.10-0.15	2	0.0114	0.2631	99.847	0.680
0.05-0.10	4	0.0227	0.1608	99.869	0.840
0.00-0.05	23	0.1305	99.1596	100.000	100.000

Target Variable=GenderCode Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	17481	99.2168	0.1754	99.217	0.175
0.90-0.95	69	0.3916	0.0365	99.608	0.212
0.85-0.90	10	0.0568	0.0804	99.665	0.292
0.75-0.80	11	0.0624	0.0000	99.728	0.292
0.50-0.55	6	0.0341	0.0219	99.762	0.314
0.45-0.50	4	0.0227	0.0073	99.784	0.321
0.30-0.35	3	0.0170	0.0292	99.801	0.351
0.20-0.25	4	0.0227	0.0950	99.824	0.446
0.10-0.15	3	0.0170	0.1607	99.841	0.606
0.05-0.10	3	0.0170	0.1534	99.858	0.760
0.00-0.05	25	0.1419	99.2401	100.000	100.000

SAS Enterprise Miner Report

Node=Model Comparison Summary

Node id = MdlComp
Node label = Model Comparison
Meta path = Ids => Part => Tree => 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	Y		TargetLabel	GenderCode	
ModelCriteria	Train: Roc Index		RocEpsilon	0.01		TargetName	GenderCode	
ModelDescription	Decision Tree		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	_AUR_	DEFAULT			

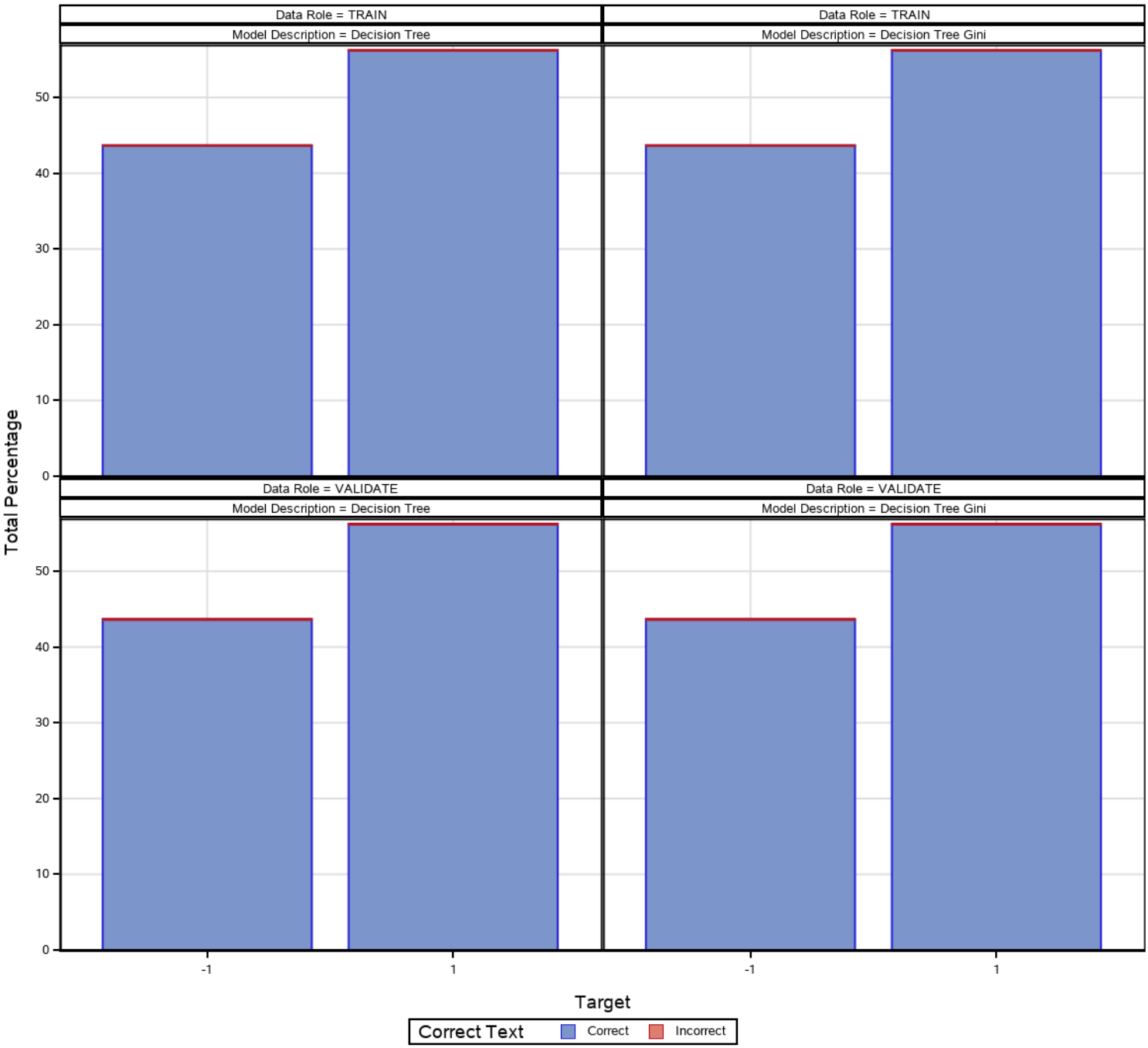
Node=Model Comparison Variable Summary

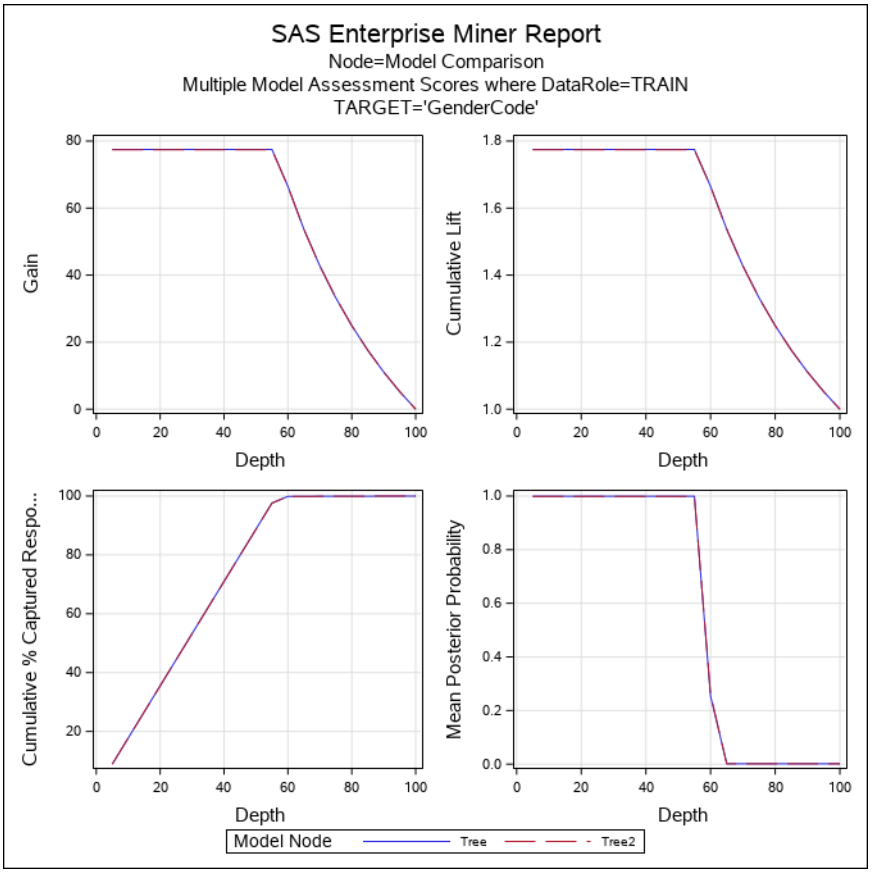
Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode

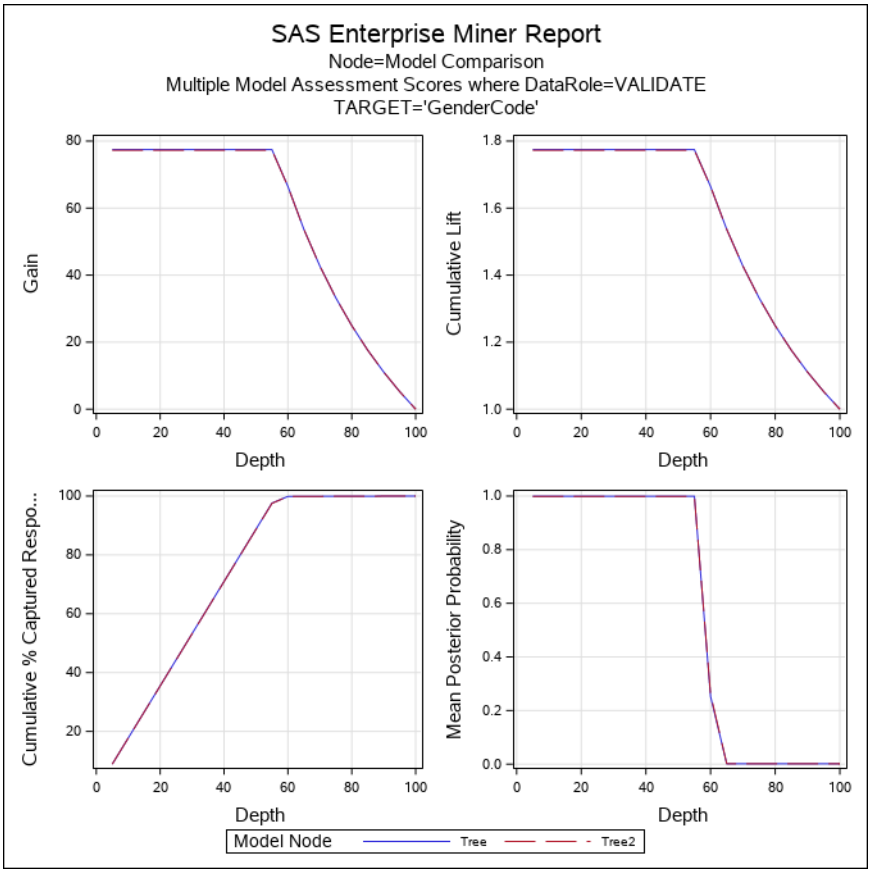
Node=Model Comparison Fit Statistics Table

Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Train: Roc Index	Train: Average Squared Error	Train: Misclassification Rate	Train: Kolmogorov-Smirnov Statistic
Y	Tree	Tree	Decision Tree	GenderCode	GenderCode	0.999	.002015184	.002108357	0.996
	Tree2	Tree2	Decision Tree Gini	GenderCode	GenderCode	0.998	.002055826	.002108357	0.996

Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Train: Roc Index	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Tree	Tree	Decision Tree	GenderCode	GenderCode	0.999	.002554247	.002715221	0.994
	Tree2	Tree2	Decision Tree Gini	GenderCode	GenderCode	0.998	.002637901	.002715221	0.994


SAS Enterprise Miner Report
Node=Model Comparison
Classification Chart
TARGET='GenderCode' and _TYPE_='PREDICTION'
Data Role = TRAIN
Model Description = Decision Tree
Data Role = TRAIN
Model Description = Decision Tree Gini
Data Role = VALIDATE
Model Description = Decision Tree
Data Role = VALIDATE
Model Description = Decision Tree Gini
Total Percentage
0
10
20
30
40
50
-1
1
Target
Correct Text
Correct
Incorrect


SAS Enterprise Miner Report
Node=Model Comparison
Multiple Model Assessment Scores where DataRole=TRAIN
TARGET='GenderCode'
Gain
Cumulative Lift
Cumulative % Captured Respo...
Mean Posterior Probability
Depth
Model Node
Tree
Tree2


SAS Enterprise Miner Report
Node=Model Comparison
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='GenderCode'
Gain
Cumulative Lift
Cumulative % Captured Respo...
Mean Posterior Probability
Depth
Model Node
Tree
Tree2

SAS Enterprise Miner Report

Node=Model Comparison (2) Summary

Node id = MdlComp2
Node label = Model Comparison (2)
Meta path = Ids => Part => Impt => Reg => MdlComp2
Notes =

Node=Model Comparison (2) 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	_VMISC_	
LiftEpsilon	1E-6		RocChart	Y		TargetLabel	GenderCode	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	GenderCode	
ModelDescription	Regression on Error		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Reg		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

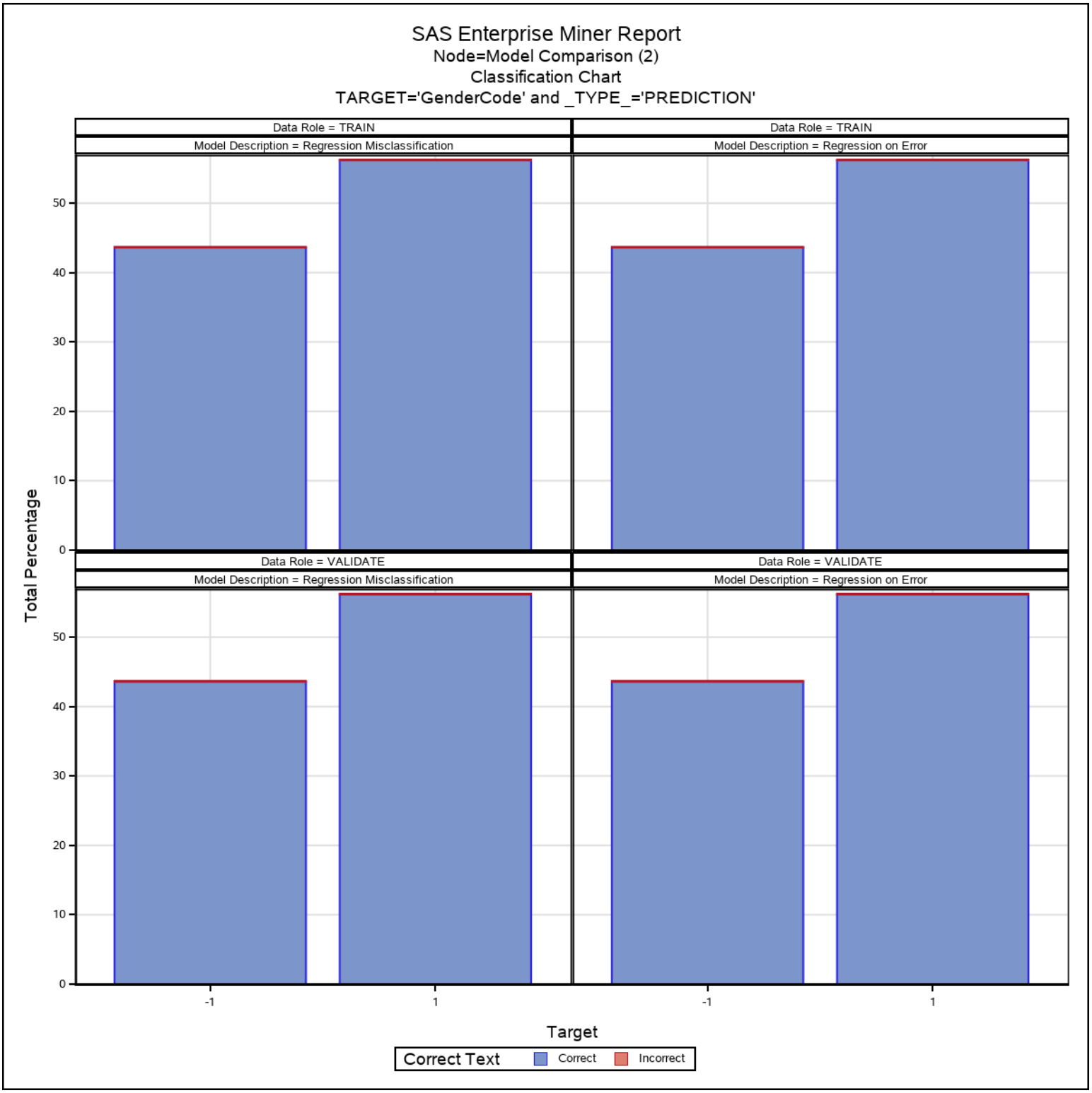
Node=Model Comparison (2) Variable Summary

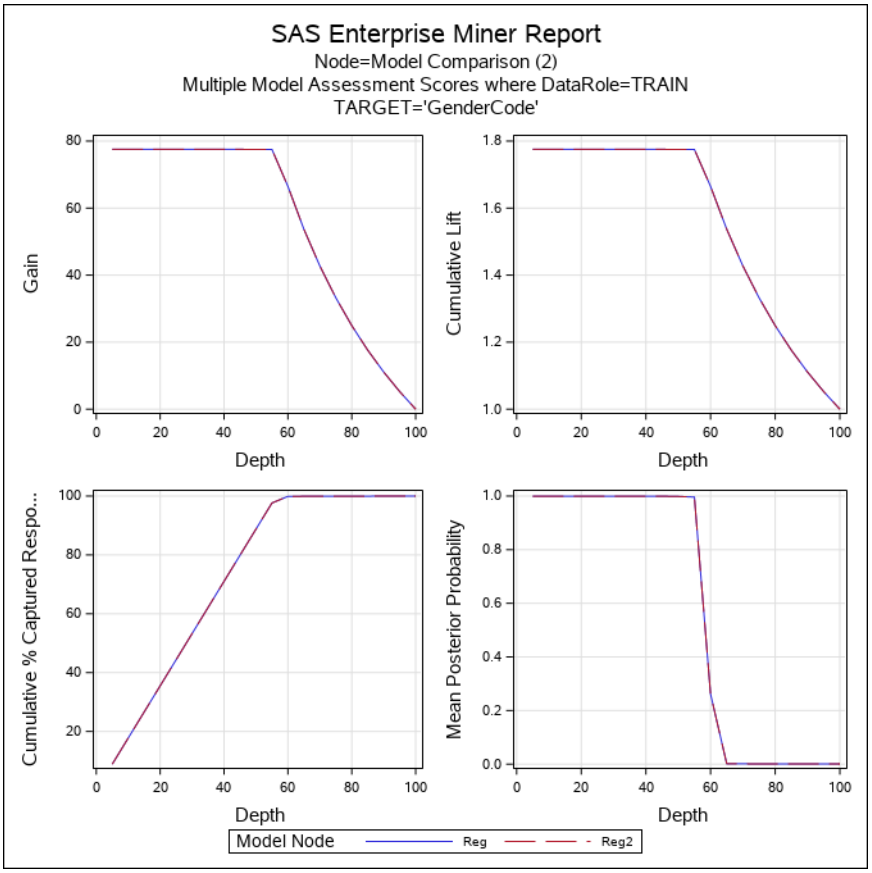
Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	GenderCode

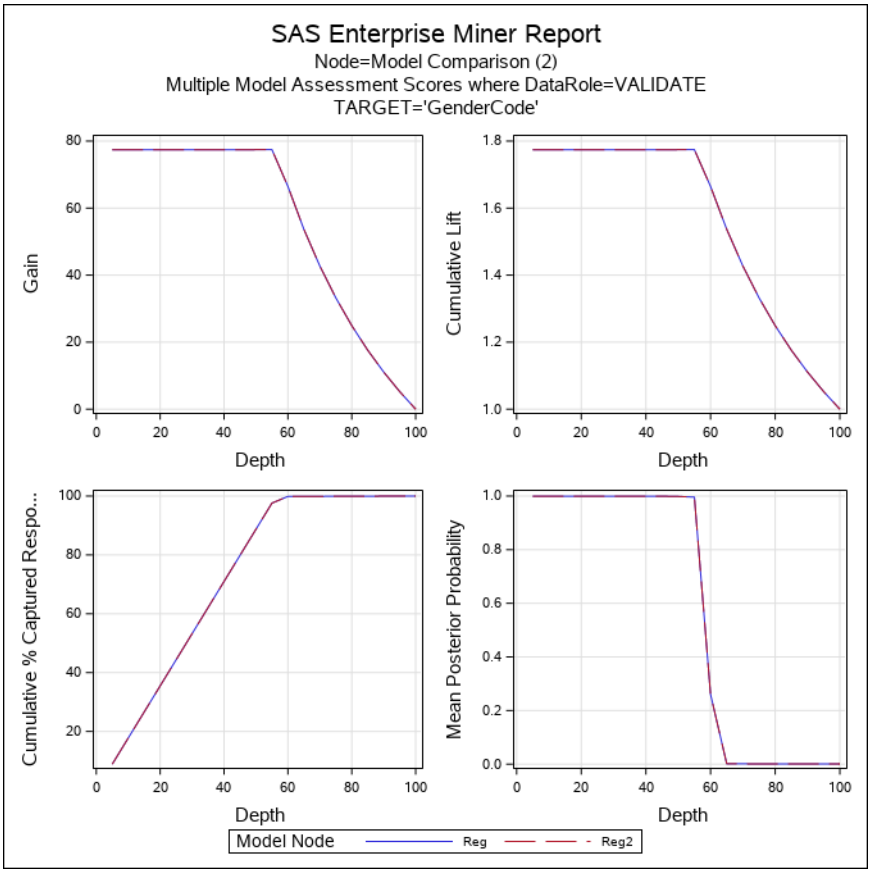
Node=Model Comparison (2) Fit Statistics Table

Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Train: Average Squared Error	Train: Misclassification Rate	Train: Kolmogorov-Smirnov Statistic
Y	Reg	Reg	Regression on Error	GenderCode	GenderCode	.002715221	.002014765	.002108357	0.996
	Reg2	Reg2	Regression Misclassification	GenderCode	GenderCode	.002715221	.002014765	.002108357	0.996

Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Reg	Reg	Regression on Error	GenderCode	GenderCode	.002715221	.002449021	.002715221	0.995
	Reg2	Reg2	Regression Misclassification	GenderCode	GenderCode	.002715221	.002449021	.002715221	0.995


SAS Enterprise Miner Report
Node=Model Comparison (2)
Classification Chart
TARGET='GenderCode' and _TYPE_='PREDICTION'
Data Role = TRAIN
Model Description = Regression Misclassification
Data Role = TRAIN
Model Description = Regression on Error
Data Role = VALIDATE
Model Description = Regression Misclassification
Data Role = VALIDATE
Model Description = Regression on Error
Total Percentage
0
10
20
30
40
50
-1
1
Target
Correct Text
Correct
Incorrect





End of Report