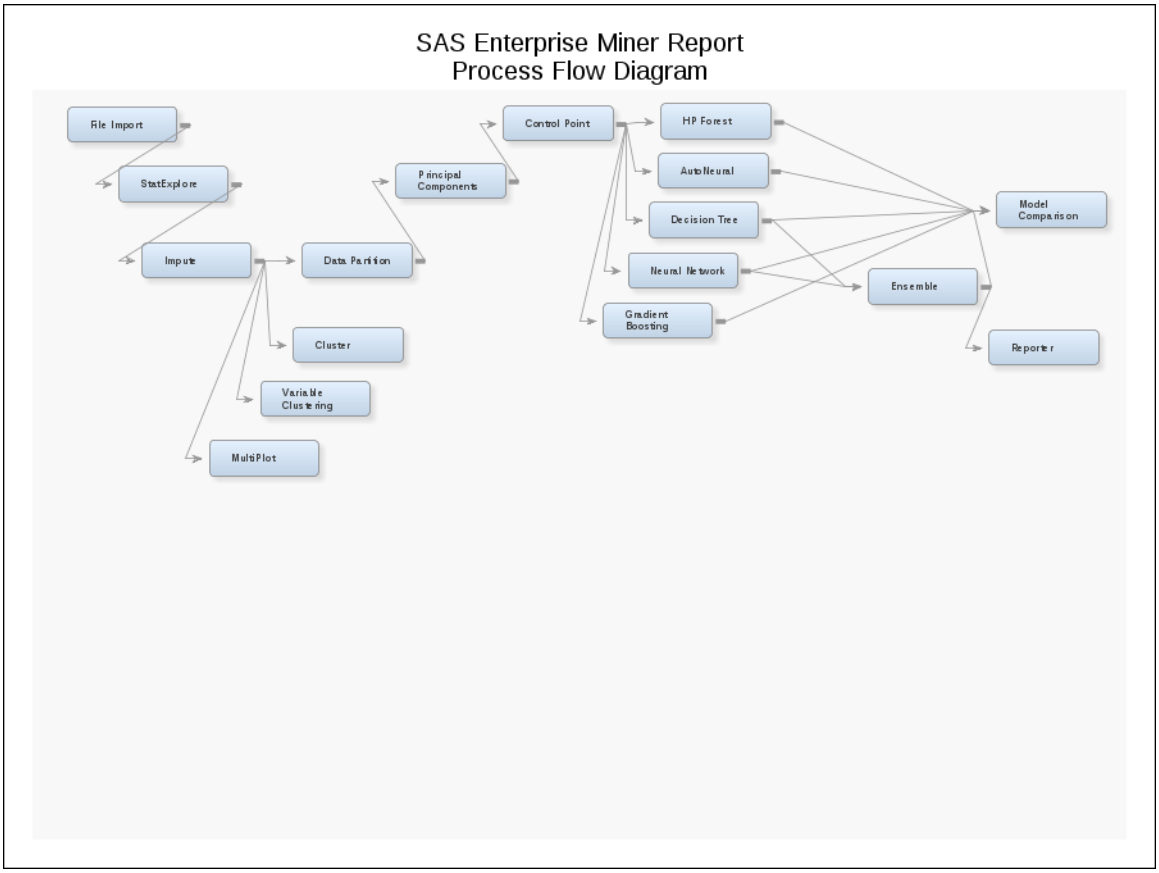
SAS Enterprise Miner Report

User = praveend0
Date = 20:52:47 November 13
Project = DMProject
Diagram = Bank_Full

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

Format = PDF
Style = LISTING



SAS Enterprise Miner Report

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	Y	
AccessTable	NoTableName		IFileName	C:\Users\Praveen\Downloads\DM project\bank-full.csv		Password	NoPassword	
AdvancedAdvisor	N		ImportType	Local	LOCAL	Role	TRAIN	
Delimiter	,		MaxCols	10000		SkipRows	0	
FileType	csv	XLS	MaxRows	1000000		Summarize	N	

Node=File Import
Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT_DATA	Date Created	13Nov2017:20:51:40	Data Size	5506048
Data Type	DATA	Date Modified	13Nov2017:20:51:40	Role	TRAIN
Data Label		Number Rows	45211	Segment	
Engine	V9	Number Columns	17	Data Library	EMWS1

Node=File Import
Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
Age		INPUT	INTERVAL	N	8	BEST12.0	
Avg_yearly_Balance		INPUT	INTERVAL	N	8	BEST12.0	
Campaign		INPUT	INTERVAL	N	8	BEST12.0	
Contact_Day		INPUT	INTERVAL	N	8	BEST12.0	
Contact_Month		INPUT	NOMINAL	C	3	$3.	
Contact_Type		INPUT	NOMINAL	C	7	$7.	
Default_Credit		INPUT	NOMINAL	C	3	$3.	
Duration		INPUT	INTERVAL	N	8	BEST12.0	
Education		INPUT	NOMINAL	C	9	$9.	
House_Loan		INPUT	NOMINAL	C	3	$3.	
Job		INPUT	NOMINAL	C	13	$13.	
Marital_Status		INPUT	NOMINAL	C	8	$8.	
POutcome		INPUT	NOMINAL	C	7	$7.	
Past_Days		INPUT	INTERVAL	N	8	BEST12.0	
Personal_Loan		INPUT	NOMINAL	C	3	$3.	
Previous		INPUT	INTERVAL	N	8	BEST12.0	
Term_Deposit		TARGET	BINARY	C	3	$3.	

Node=File Import
Created Variables List

SAS Enterprise Miner Report

Node=StatExplore
Summary

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

Node=StatExplore
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	StatExplore		Correlation	Y		NObs	100000	1000000
BySegment	N	Y	DropRejected	Y		Pearson	Y	
ChiSquare	Y		HideVariable	Y		Spearman	N	
ChiSquareInterval	N		IntervalDistribution	Y		UseScore	N	
ChiSquareIntervalNBins	5		LevelSummary	Y		UseTest	N	
ClassDistribution	Y		MaximumVars	1000		UseValidate	N	

Node=StatExplore
Variable Summary

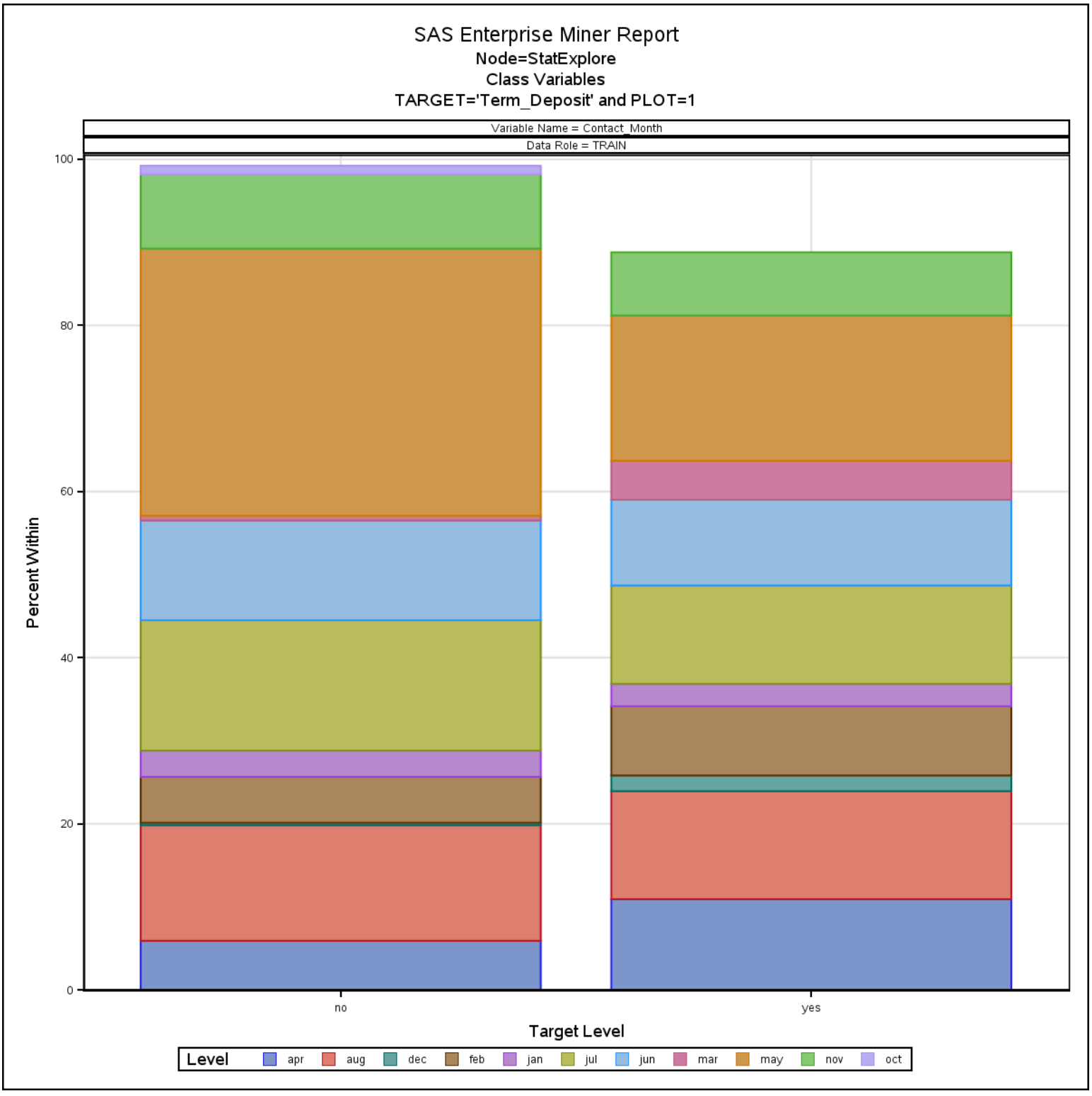
Role	Level	Frequency Count	Name
INPUT	INTERVAL	7	Age Avg_yearly_Balance Campaign Contact_Day Duration Past_Days Previous
INPUT	NOMINAL	9	Contact_Month Contact_Type Default_Credit Education House_Loan Job Marital_Status POutcome Personal_Loan

Target	Variable	Importance	Worth	Analysis Variable	Label	plot
Term_Deposit	Duration	1	0.033723	1	Duration	.
Term_Deposit	POutcome	2	0.019928	1	POutcome	.
Term_Deposit	Contact_Month	3	0.013662	1	Contact_Month	.
Term_Deposit	Past_Days	4	0.012350	1	Past_Days	.
Term_Deposit	Age	5	0.006430	1	Age	.
Term_Deposit	Previous	6	0.006263	1	Previous	.
Term_Deposit	Contact_Type	7	0.004706	1	Contact_Type	.
Term_Deposit	Job	8	0.003982	1	Job	.
Term_Deposit	House_Loan	9	0.003640	1	House_Loan	.
Term_Deposit	Avg_yearly_Balance	10	0.002513	1	Avg_yearly_Balance	.
Term_Deposit	Campaign	11	0.001583	1	Campaign	.
Term_Deposit	Contact_Day	12	0.001213	1	Contact_Day	.
Term_Deposit	Education	13	0.001085	1	Education	.
Term_Deposit	Personal_Loan	14	0.000909	1	Personal_Loan	.
Term_Deposit	Marital_Status	15	0.000806	1	Marital_Status	.
Term_Deposit	Default_Credit	16	0.000092	1	Default_Credit	.

Data Role	Segment	Segment Id	Segment Name:Value	Target	Input	Cramer's V	Prob	Chi-Square	Df	Role	Label	Ordered Inputs	Group	Plot
TRAIN			_OVERALL_	Term_Deposit	POutcome	0.31166	<.0001	4391.5066	3	INPUT	POutcome	1	1	1
TRAIN			_OVERALL_	Term_Deposit	Contact_Month	0.26024	<.0001	3061.8389	11	INPUT	Contact_Month	2	2	1
TRAIN			_OVERALL_	Term_Deposit	Contact_Type	0.15136	<.0001	1035.7142	2	INPUT	Contact_Type	3	3	1
TRAIN			_OVERALL_	Term_Deposit	House_Loan	0.13917	<.0001	875.6937	1	INPUT	House_Loan	4	4	1

SAS Enterprise Miner Report
Node=StatExplore
Chi-Square Plot

Data Role	Segment	Segment Id	Segment Name:Value	Target	Input	Cramer's V	Prob	Chi-Square	Df	Role	Label	Ordered Inputs	Group	Plot
TRAIN			_OVERALL_	Term_Deposit	Job	0.13599	<.0001	836.1055	11	INPUT	Job	5	5	1
TRAIN			_OVERALL_	Term_Deposit	Education	0.07270	<.0001	238.9235	3	INPUT	Education	6	6	1
TRAIN			_OVERALL_	Term_Deposit	Personal_Loan	0.06819	<.0001	210.1949	1	INPUT	Personal_Loan	7	7	1
TRAIN			_OVERALL_	Term_Deposit	Marital_Status	0.06593	<.0001	196.4959	2	INPUT	Marital_Status	8	8	1
TRAIN			_OVERALL_	Term_Deposit	Default_Credit	0.02242	<.0001	22.7235	1	INPUT	Default_Credit	9	9	1



SAS Enterprise Miner Report

Node=Impute
Summary

Node id = Impt
Node label = Impute
Meta path = FIMPORT => Stat => 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	COUNT		SpacingProportion	90	
HideVariable	Y		MethodInterval	MEAN		Splitsize	.	
ImputeNoMissing	N		MethodTargetClass	NONE		ValidateTestMissing	N	
Indicator	NONE		MethodTargetInterval	NONE				

Node=Impute
Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	7	Age Avg_yearly_Balance Campaign Contact_Day Duration Past_Days Previous
INPUT	NOMINAL	9	Contact_Month Contact_Type Default_Credit Education House_Loan Job Marital_Status POutcome Personal_Loan

SAS Enterprise Miner Report

Node=Data Partition
Summary

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

Node=Data Partition
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Partition		Method	DEFAULT		TestPct	20	30
ClassDistribution	Y		OutputType	DATA		TrainPct	60	40
IntervalDistribution	Y		RandomSeed	12345		ValidatePct	20	30

Node=Data Partition
Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	Term_Deposit
INPUT	INTERVAL	7	Age Avg_yearly_Balance Campaign Contact_Day Duration Past_Days Previous
INPUT	NOMINAL	9	Contact_Month Contact_Type Default_Credit Education House_Loan Job Marital_Status POutcome Personal_Loan

SAS Enterprise Miner Report

Node=Principal Components
Summary

Node id = PRINCOMP
Node label = Principal Components
Meta path = FIMPORT => Stat => Impt => Part => PRINCOMP
Notes =

Node=Principal Components
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	PrinComp		EigenSource	CORR		PrincompLabel	PRINCOMPLABEL	
ApplyMaxPrincomp	Y		HideOriginalInputVariables	Y		PrincompPrefix	PC	
CumEigenCutoff	0.99		MaxPrincomp	20		PrintEigenSourceMatrix	N	
EigenIncreCutoff	0.001		NUserSelectedPrincomp	16	1	RejectOriginalInputVariables	Y	

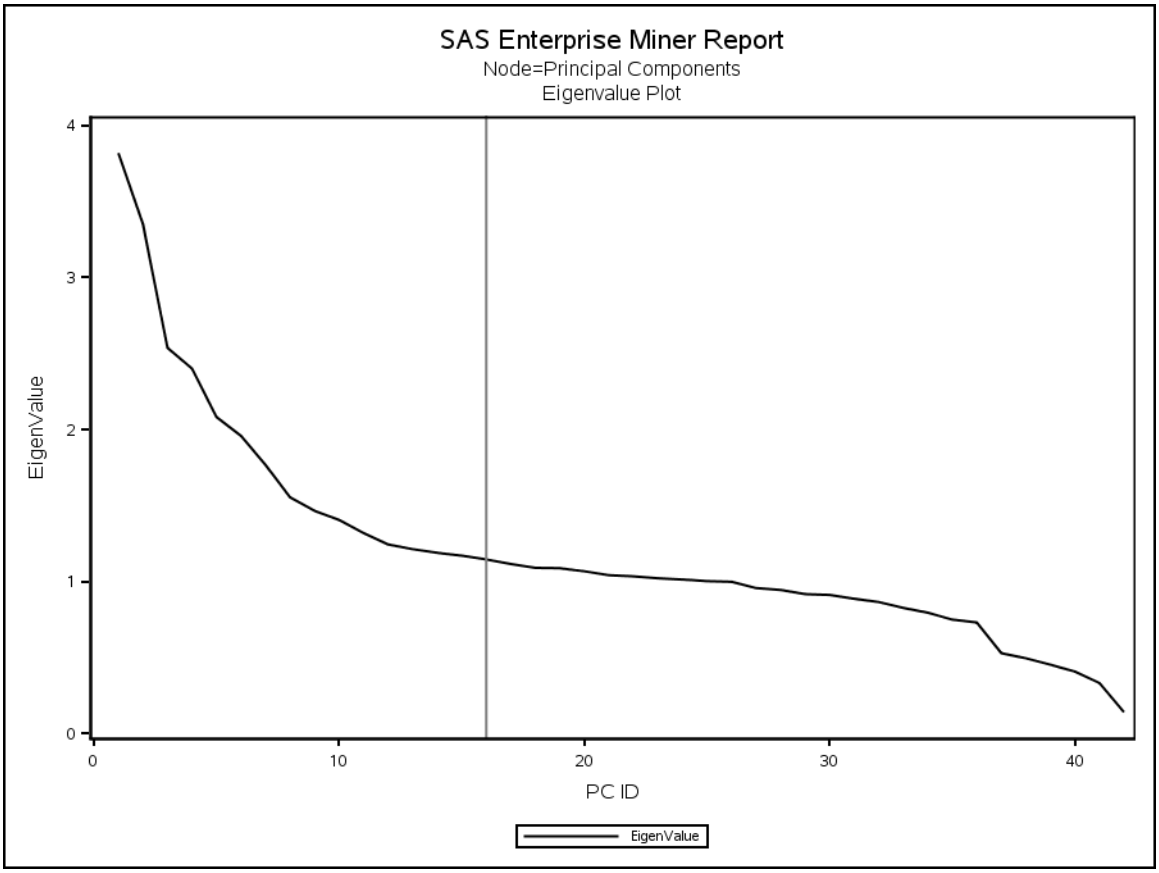
Node=Principal Components
Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	7	Age Avg_yearly_Balance Campaign Contact_Day Duration Past_Days Previous
INPUT	NOMINAL	9	Contact_Month Contact_Type Default_Credit Education House_Loan Job Marital_Status POutcome Personal_Loan

Node=Principal Components
Created Variables Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	16	PC_1 PC_10 PC_11 PC_12 PC_13 PC_14 PC_15 PC_16 PC_2 PC_3 PC_4 PC_5 PC_6 PC_7 PC_8 PC_9

SAS Enterprise Miner Report
Node=Principal Components
Eigenvalue Plot



SAS Enterprise Miner Report

Node=Neural Network
Summary

Node id = Neural
Node label = Neural Network
Meta path = FIMPORT => Stat => Impt => Part => PRINCOMP => Neural
Notes =

Node=Neural Network
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	3		Prelim	Y	
AbsConvValue	-1.34078E154	-7.237006E75	HiddenActivation	DEFAULT		PrelimMaxTime	1 HOUR	
AbsFTime	1		HiddenBias	Y		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	Y	
AddHidden	Y		MaxLearn	50		Standardizations	N	
CodefileNoRes			MaxMomentum	1.75		SuppressOutput	N	
CodefileRes			Maxiter	50		TargetActivation	DEFAULT	
ConvDefaults	Y		Maxtime	4 HOURS		TargetBias	Y	
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	Term_Deposit
INPUT	INTERVAL	16	PC_1 PC_10 PC_11 PC_12 PC_13 PC_14 PC_15 PC_16 PC_2 PC_3 PC_4 PC_5 PC_6 PC_7 PC_8 PC_9

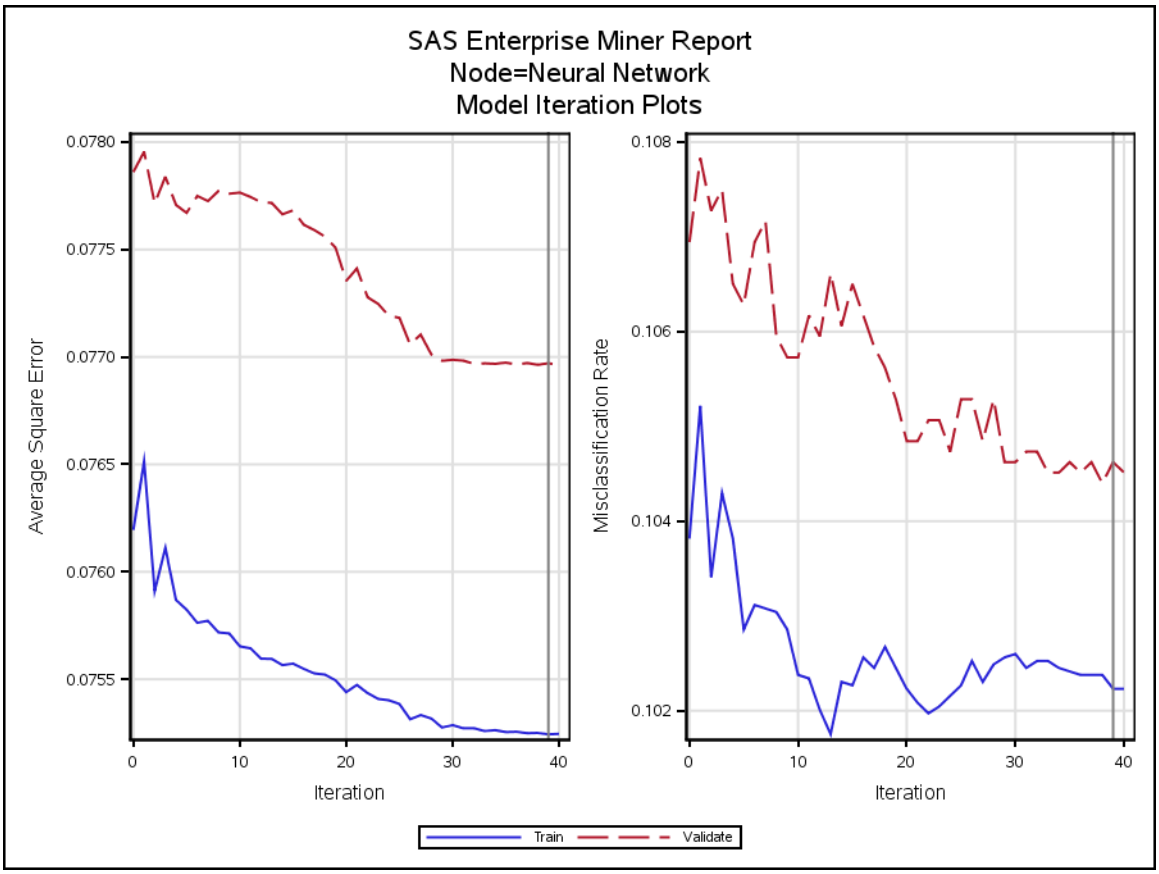
Node=Neural Network
Model Fit Statistics

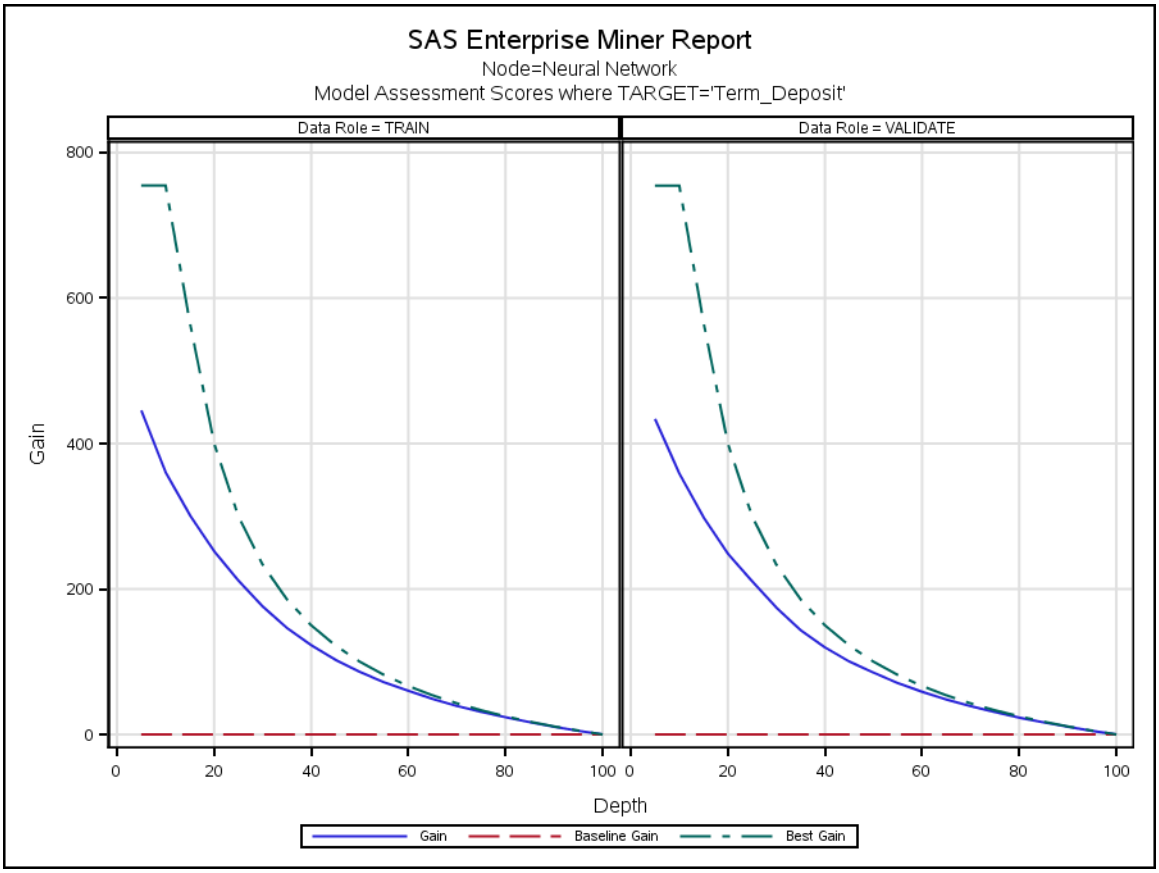
Target=Term_Deposit Target Label=' '

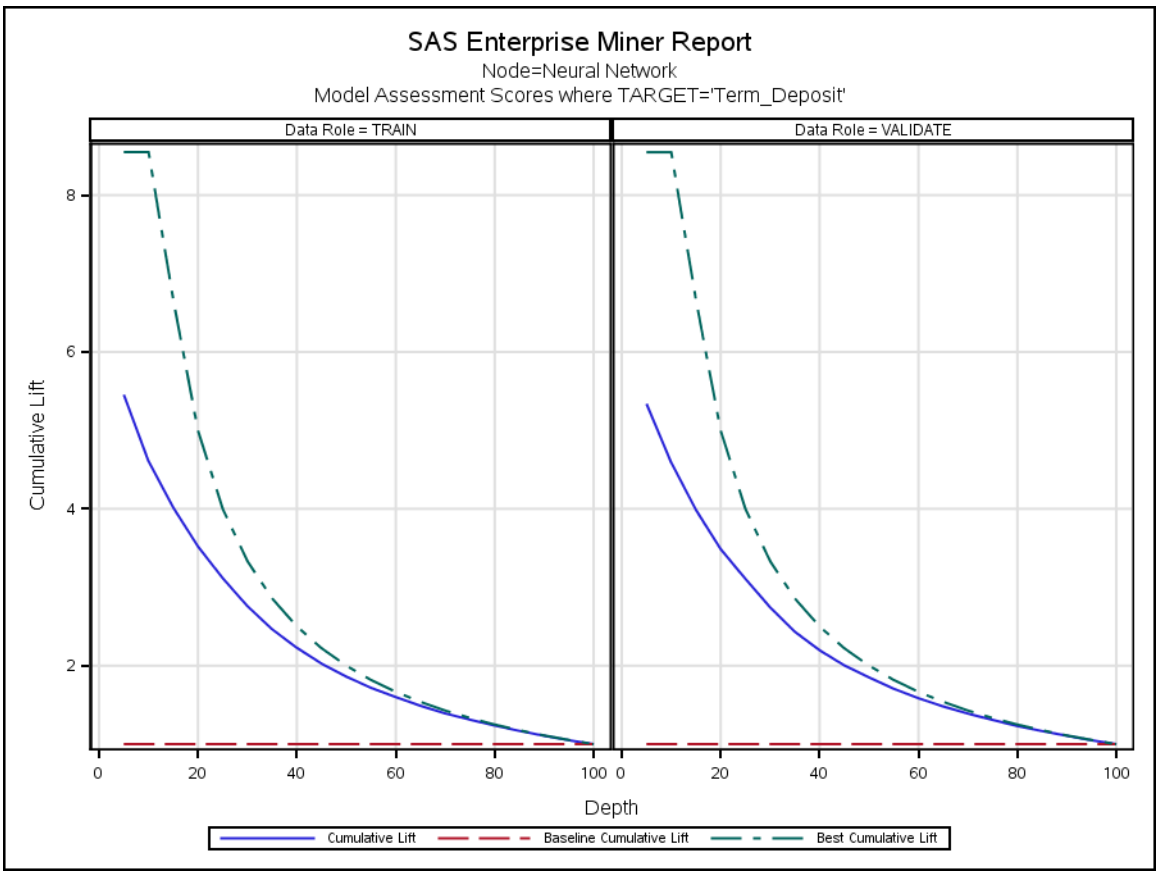
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	27125.00	.	.
Degrees of Freedom for Error	27070.00	.	.
Model Degrees of Freedom	55.00	.	.
Number of Estimated Weights	55.00	.	.
Akaike's Information Criterion	13791.89	.	.
Schwarz's Bayesian Criterion	14243.34	.	.

Target=Term_Deposit Target Label=' '

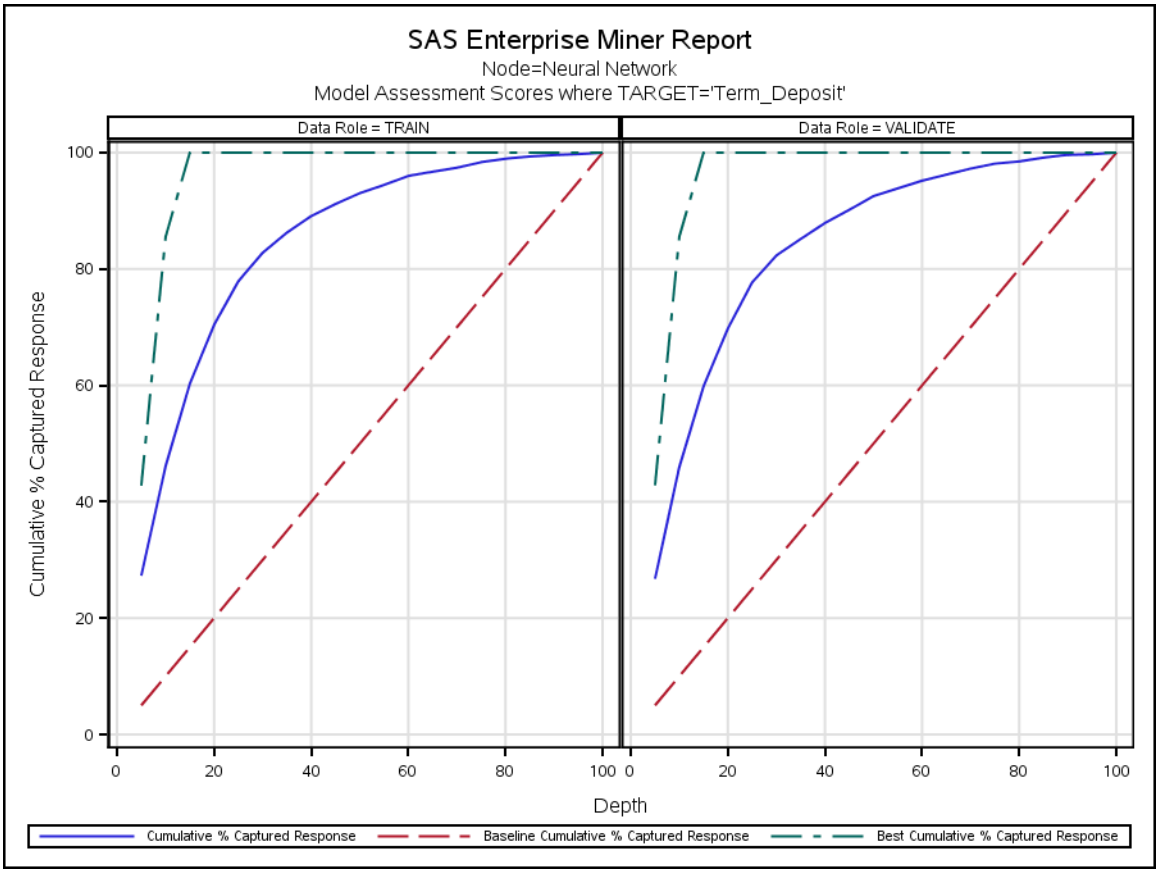
Label of Statistic	Train	Validation	Test
Average Squared Error	0.08	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Divisor for ASE	54250.00	18084.00	18088.00
Sum of Frequencies	27125.00	9042.00	9044.00
Root Average Squared Error	0.27	0.28	0.28
Sum of Squared Errors	4081.98	1391.94	1393.86
Sum of Case Weights Times Freq	54250.00	18084.00	18088.00
Final Prediction Error	0.08	.	.
Mean Squared Error	0.08	0.08	0.08
Root Final Prediction Error	0.27	.	.
Root Mean Squared Error	0.27	0.28	0.28
Average Error Function	0.25	0.26	0.26
Error Function	13681.89	4670.68	4652.72
Misclassification Rate	0.10	0.10	0.11
Number of Wrong Classifications	2773.00	946.00	955.00

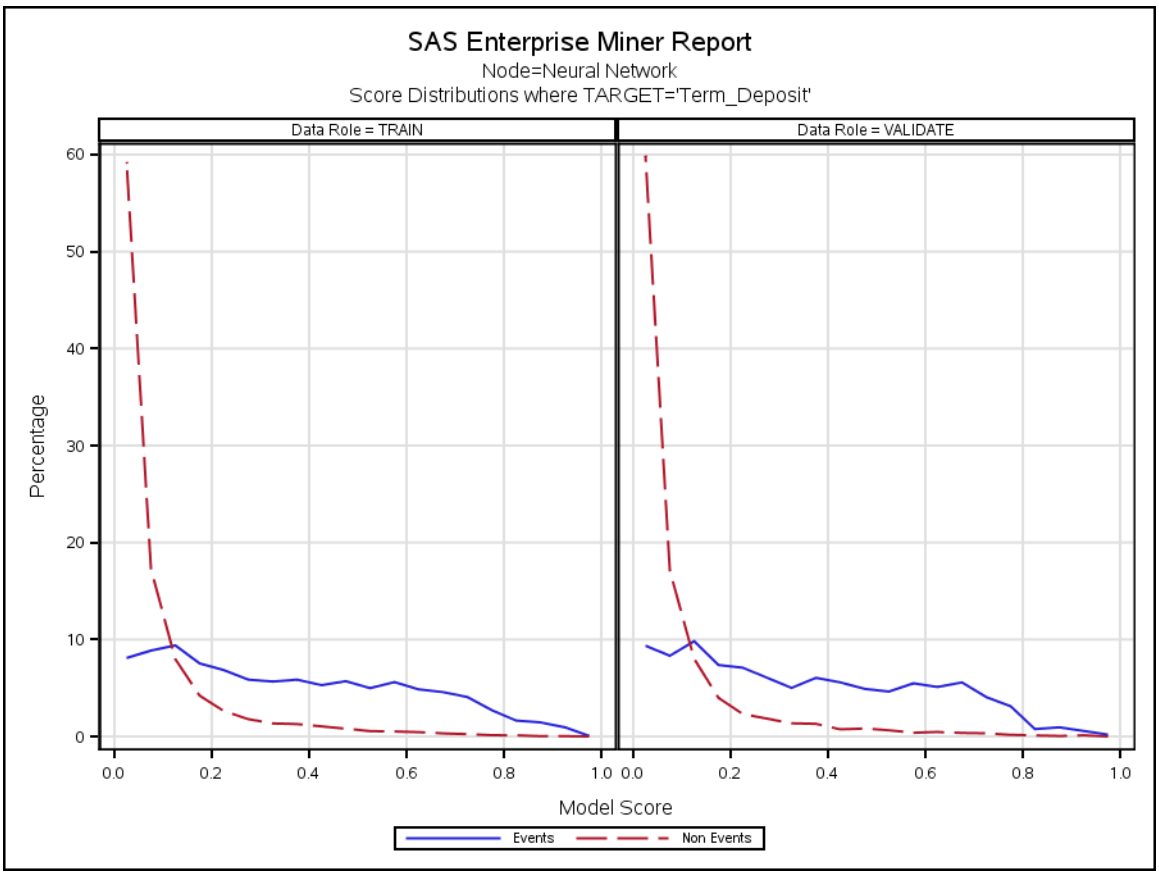



SAS Enterprise Miner Report
Node=Neural Network
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Gain
800
600
400
200
0
0
20
40
60
80
100
Depth
Gain
Baseline Gain
Best Gain

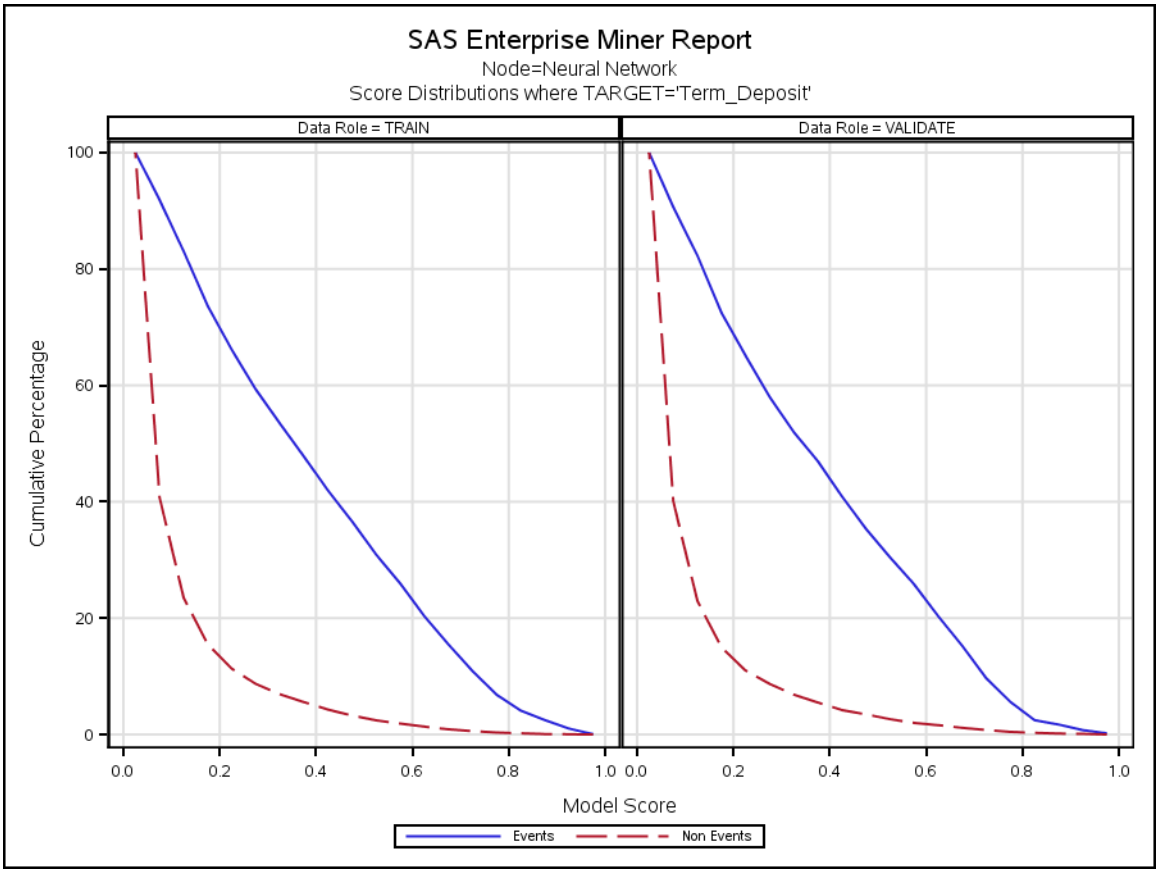

SAS Enterprise Miner Report
Node=Neural Network
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
8
6
4
2
0
20
40
60
80
100
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift

SAS Enterprise Miner Report
Node=Neural Network
Model Assessment Scores where TARGET='Term_Deposit'





SAS Enterprise Miner Report
Node=Neural Network
Score Distributions where TARGET='Term_Deposit'



Node=Neural Network
Score Distributions

Target Variable=Term_Deposit 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	2	0.06303	0.0000	0.063	0.000
0.90-0.95	30	0.94548	0.0418	1.009	0.042
0.85-0.90	46	1.44973	0.0292	2.458	0.071
0.80-0.85	52	1.63883	0.1169	4.097	0.188
0.75-0.80	86	2.71037	0.1420	6.807	0.330
0.70-0.75	129	4.06555	0.2422	10.873	0.572
0.65-0.70	145	4.56981	0.3215	15.443	0.893
0.60-0.65	154	4.85345	0.4509	20.296	1.344
0.55-0.60	178	5.60983	0.5219	25.906	1.866
0.50-0.55	158	4.97951	0.5553	30.886	2.422
0.45-0.50	181	5.70438	0.8141	36.590	3.236
0.40-0.45	168	5.29467	1.0396	41.885	4.275
0.35-0.40	186	5.86196	1.2817	47.747	5.557
0.30-0.35	180	5.67286	1.3485	53.419	6.905
0.25-0.30	186	5.86196	1.7827	59.281	8.688
0.20-0.25	217	6.83895	2.6136	66.120	11.302
0.15-0.20	239	7.53230	4.2126	73.653	15.514
0.10-0.15	298	9.39174	7.9743	83.044	23.489
0.05-0.10	281	8.85597	17.2720	91.900	40.761
0.00-0.05	257	8.09959	59.2393	100.000	100.000

Target Variable=Term_Deposit 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	2	0.18904	0.0000	0.189	0.000
0.90-0.95	6	0.56711	0.1127	0.756	0.113
0.85-0.90	10	0.94518	0.0501	1.701	0.163
0.80-0.85	8	0.75614	0.1127	2.457	0.276
0.75-0.80	33	3.11909	0.1754	5.577	0.451
0.70-0.75	43	4.06427	0.3257	9.641	0.777
0.65-0.70	59	5.57656	0.3632	15.217	1.140
0.60-0.65	54	5.10397	0.4634	20.321	1.603
0.55-0.60	58	5.48204	0.3883	25.803	1.991
0.50-0.55	49	4.63138	0.6388	30.435	2.630
0.45-0.50	52	4.91493	0.8267	35.350	3.457
0.40-0.45	59	5.57656	0.7390	40.926	4.196
0.35-0.40	64	6.04915	1.3026	46.975	5.498
0.30-0.35	53	5.00945	1.3527	51.985	6.851
0.25-0.30	64	6.04915	1.8412	58.034	8.692
0.20-0.25	75	7.08885	2.3046	65.123	10.997
0.15-0.20	78	7.37240	3.9830	72.495	14.980
0.10-0.15	104	9.82987	8.0035	82.325	22.983
0.05-0.10	88	8.31758	17.1217	90.643	40.105
0.00-0.05	99	9.35728	59.8948	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree
Summary

Node id = Tree
Node label = Decision Tree
Meta path = FIMPORT => Stat => Impt => Part => PRINCOMP => 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	

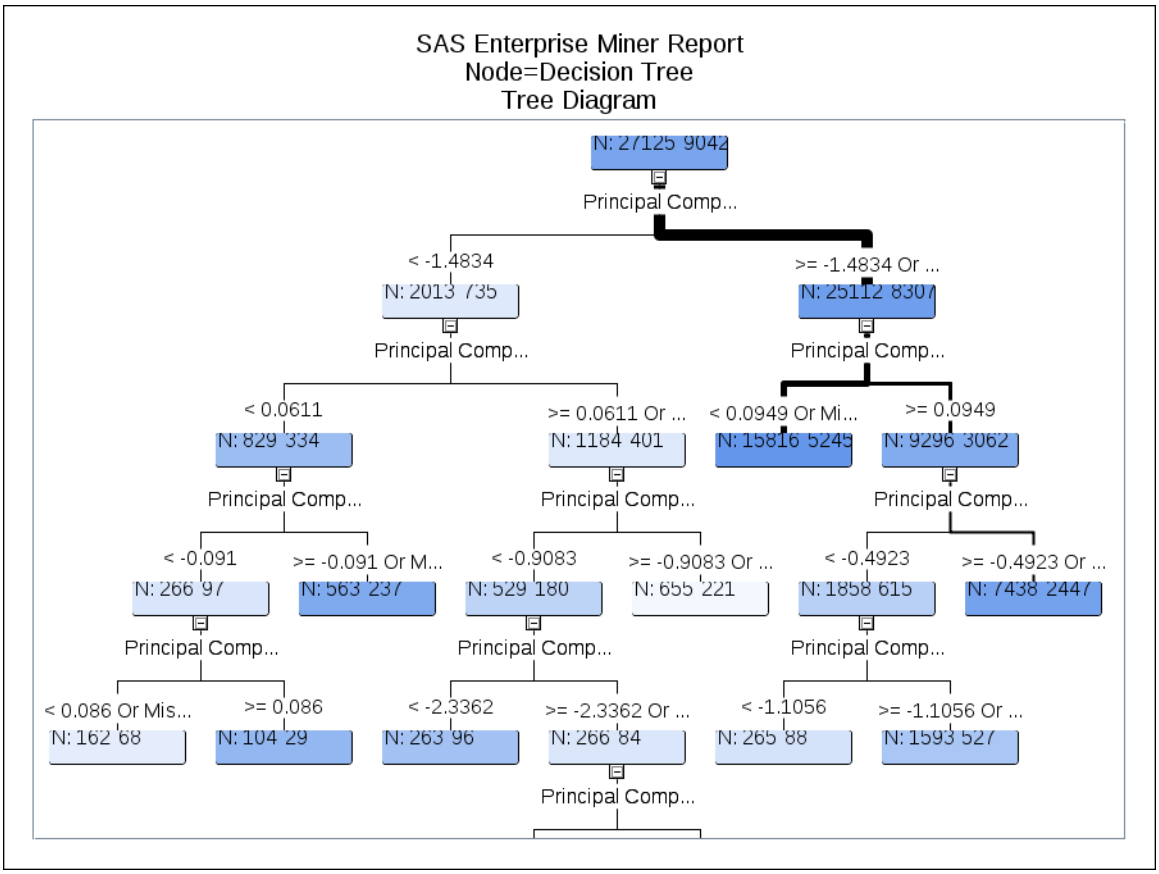
Node=Decision Tree
Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	Term_Deposit
INPUT	INTERVAL	16	PC_1 PC_10 PC_11 PC_12 PC_13 PC_14 PC_15 PC_16 PC_2 PC_3 PC_4 PC_5 PC_6 PC_7 PC_8 PC_9
ID	INTERVAL	1	_dataobs_

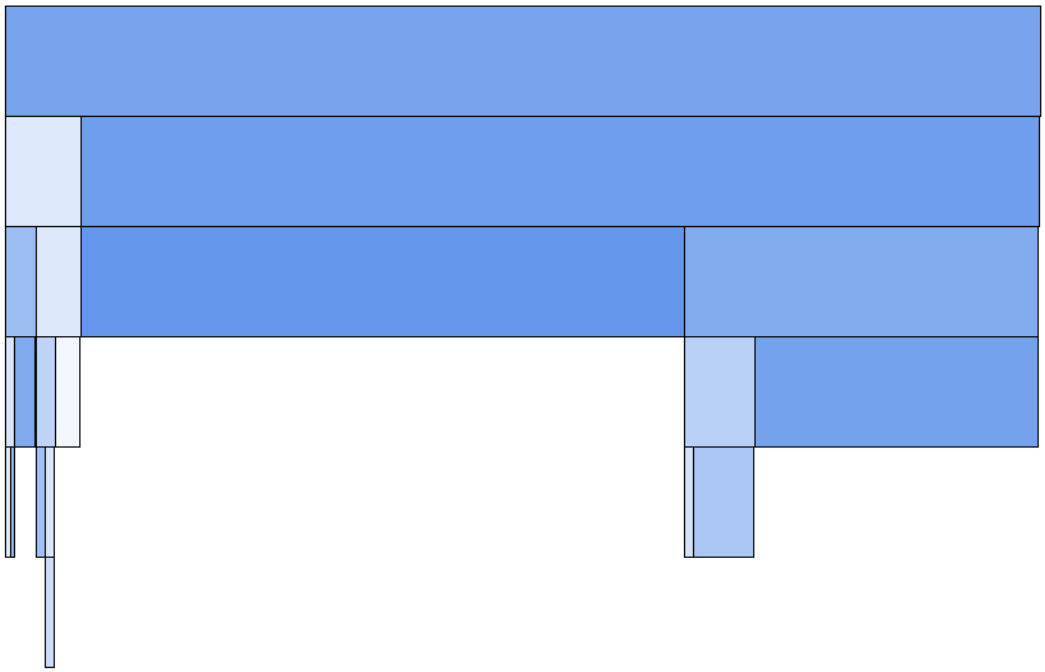
Node=Decision Tree
Model Fit Statistics

Target=Term_Deposit Target Label=' '

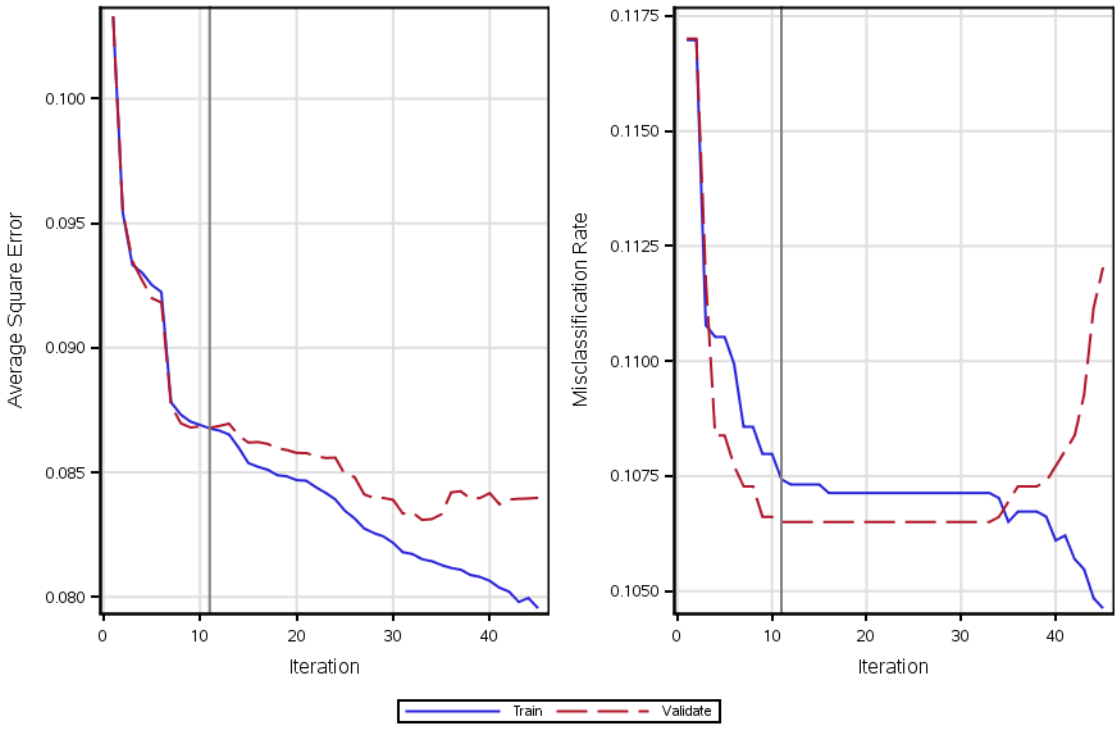
Label of Statistic	Train	Validation	Test
Sum of Frequencies	27125.00	9042.00	9044.00
Misclassification Rate	0.11	0.11	0.11
Maximum Absolute Error	0.94	0.94	0.94
Sum of Squared Errors	4706.95	1569.47	1579.55
Average Squared Error	0.09	0.09	0.09
Root Average Squared Error	0.29	0.29	0.30
Divisor for ASE	54250.00	18084.00	18088.00
Total Degrees of Freedom	27125.00	.	.

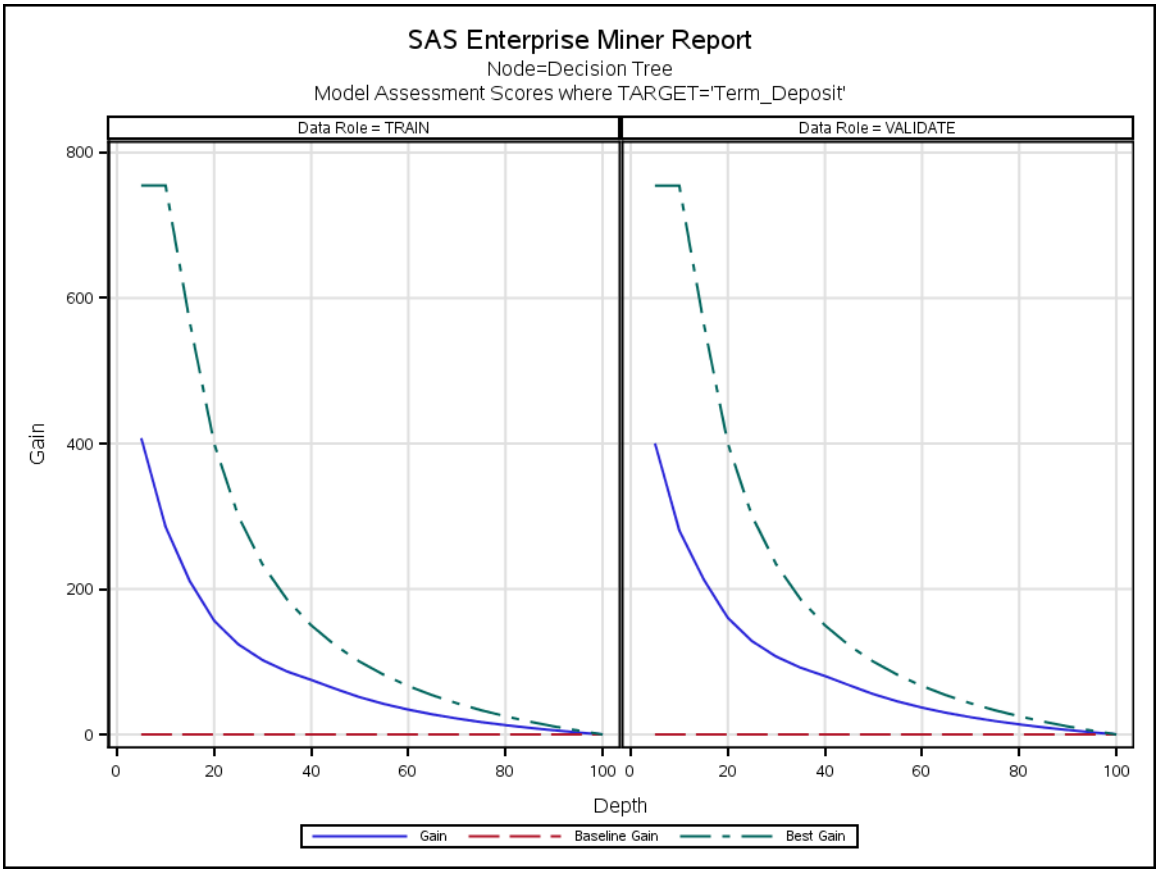


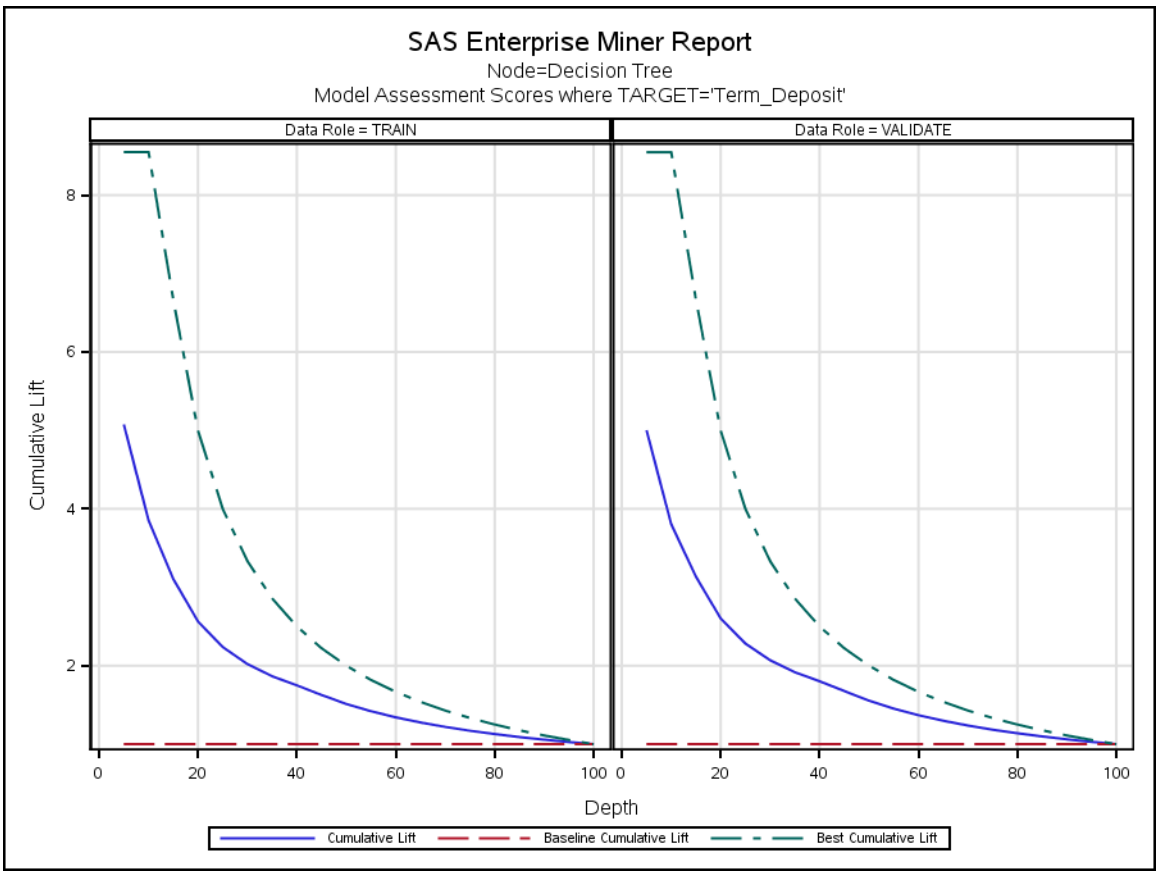
SAS Enterprise Miner Report
Node=Decision Tree
Treemap



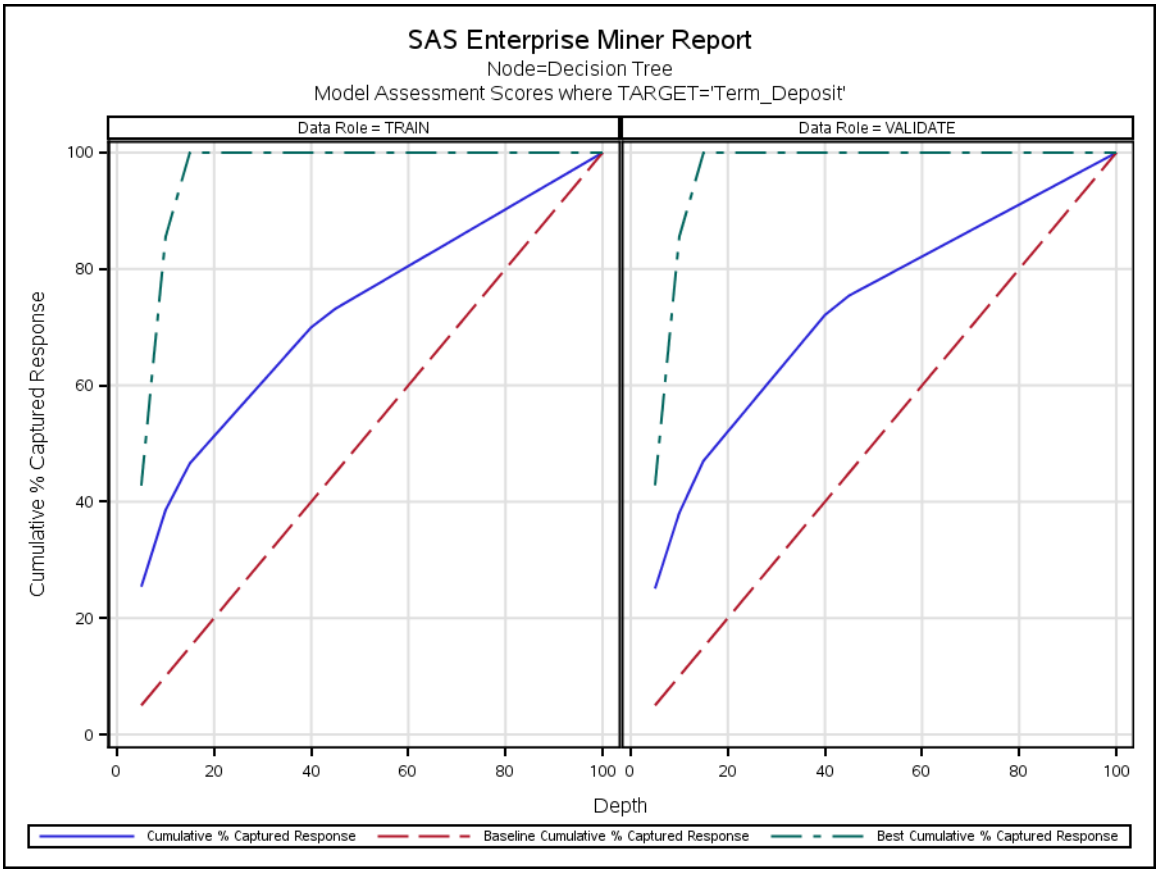
SAS Enterprise Miner Report
Node=Decision Tree
Model Iteration Plots

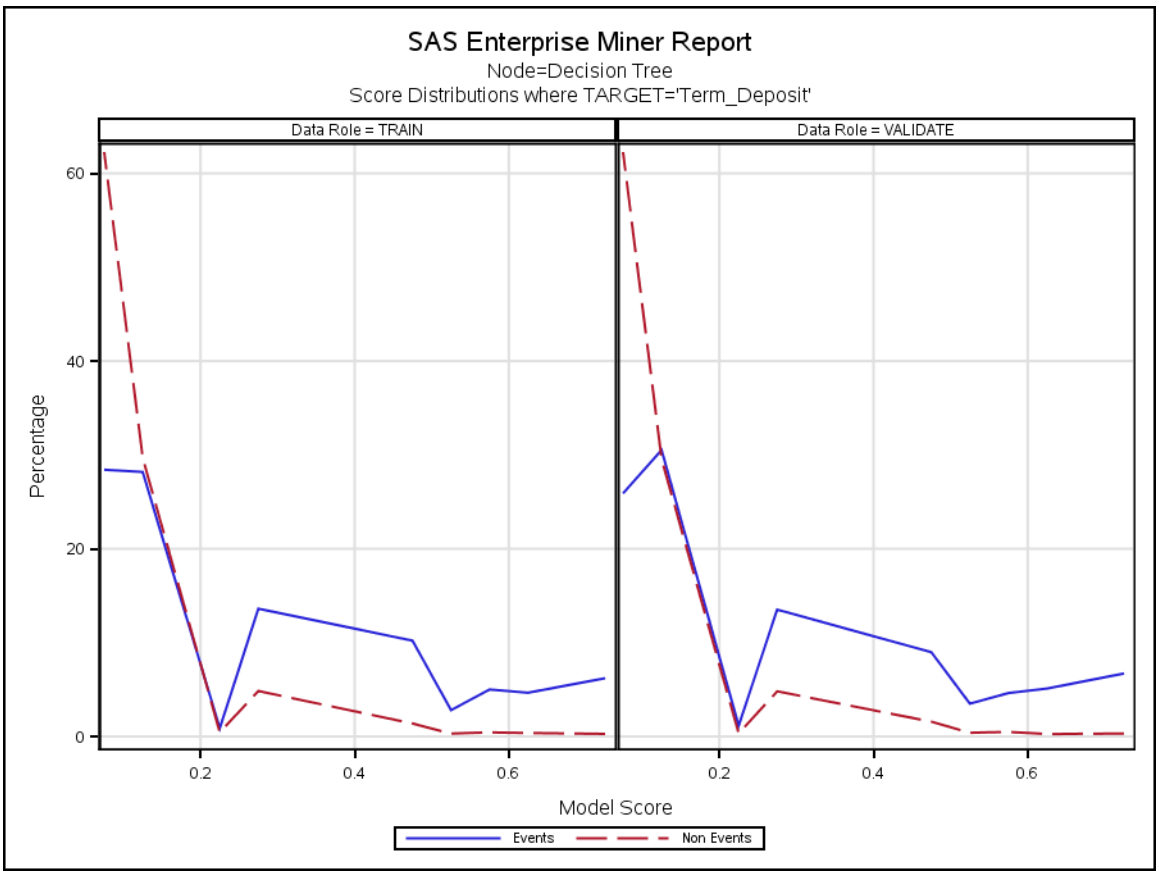



SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Gain
800
600
400
200
0
0
20
40
60
80
100
Depth
Gain
Baseline Gain
Best Gain

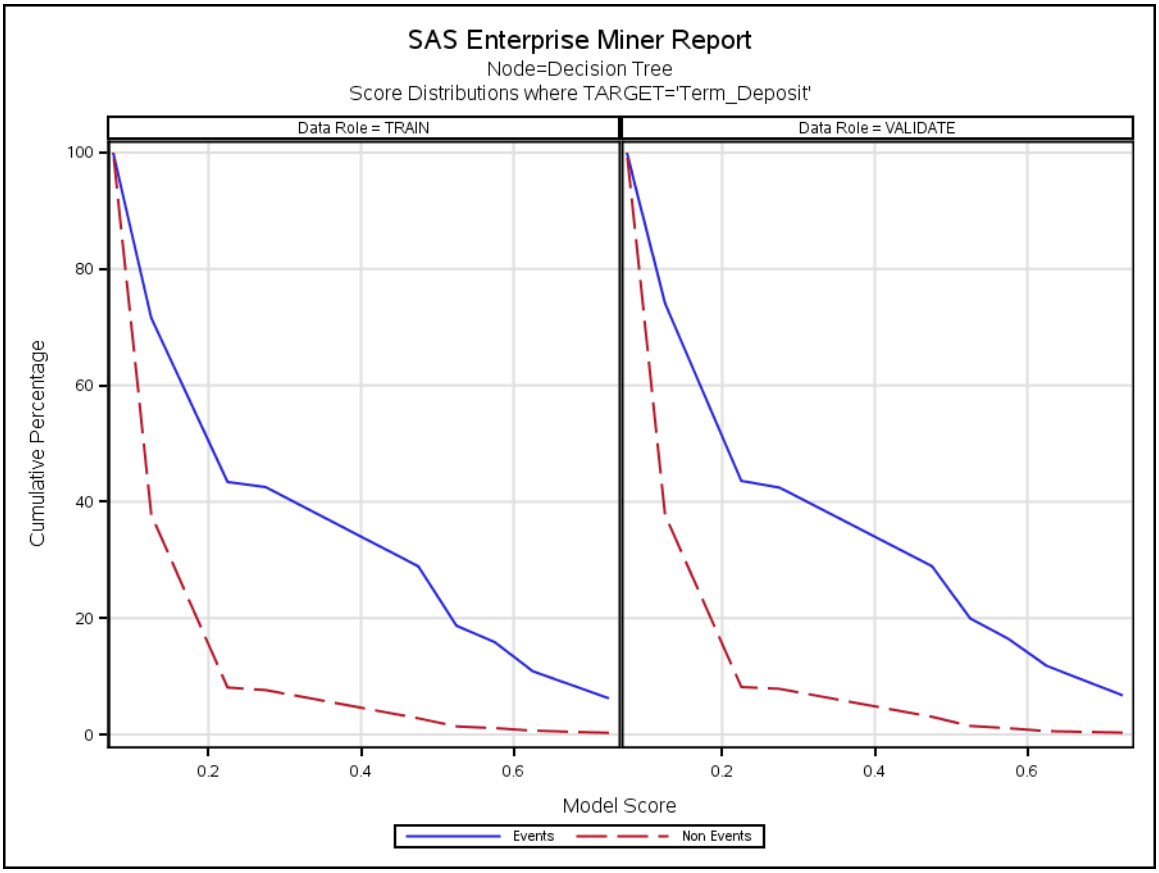

SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
8
6
4
2
0
20
40
60
80
100
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift

SAS Enterprise Miner Report
Node=Decision Tree
Model Assessment Scores where TARGET='Term_Deposit'





SAS Enterprise Miner Report
Node=Decision Tree
Score Distributions where TARGET='Term_Deposit'



Node=Decision Tree
Score Distributions

Target Variable=Term_Deposit Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.70-0.75	197	6.2086	0.2756	6.209	0.276
0.60-0.65	148	4.6644	0.3716	10.873	0.647
0.55-0.60	159	5.0110	0.4426	15.884	1.090
0.50-0.55	89	2.8049	0.3048	18.689	1.394
0.45-0.50	324	10.2112	1.3819	28.900	2.776
0.25-0.30	432	13.6149	4.8472	42.515	7.624
0.20-0.25	28	0.8824	0.4384	43.397	8.062
0.10-0.15	894	28.1752	29.6718	71.573	37.734
0.05-0.10	902	28.4274	62.2662	100.000	100.000

Target Variable=Term_Deposit Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.70-0.75	71	6.7108	0.3131	6.711	0.313
0.60-0.65	54	5.1040	0.2630	11.815	0.576
0.55-0.60	49	4.6314	0.4885	16.446	1.065
0.50-0.55	37	3.4972	0.3883	19.943	1.453
0.45-0.50	95	8.9792	1.5782	28.922	3.031
0.25-0.30	143	13.5161	4.8096	42.439	7.841

Target Variable=Term_Deposit Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.20-0.25	12	1.1342	0.3257	43.573	8.166
0.10-0.15	323	30.5293	29.5716	74.102	37.738
0.05-0.10	274	25.8979	62.2620	100.000	100.000

SAS Enterprise Miner Report

Node=Ensemble
Summary

Node id = Ensmbl
Node label = Ensemble
Meta path = FIMPORT => Stat => Impt => Part => PRINCOMP => Tree => Ensmbl
Notes =

Node=Ensemble
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Ensemble		Posterior	AVERAGE		Predicted	AVERAGE	

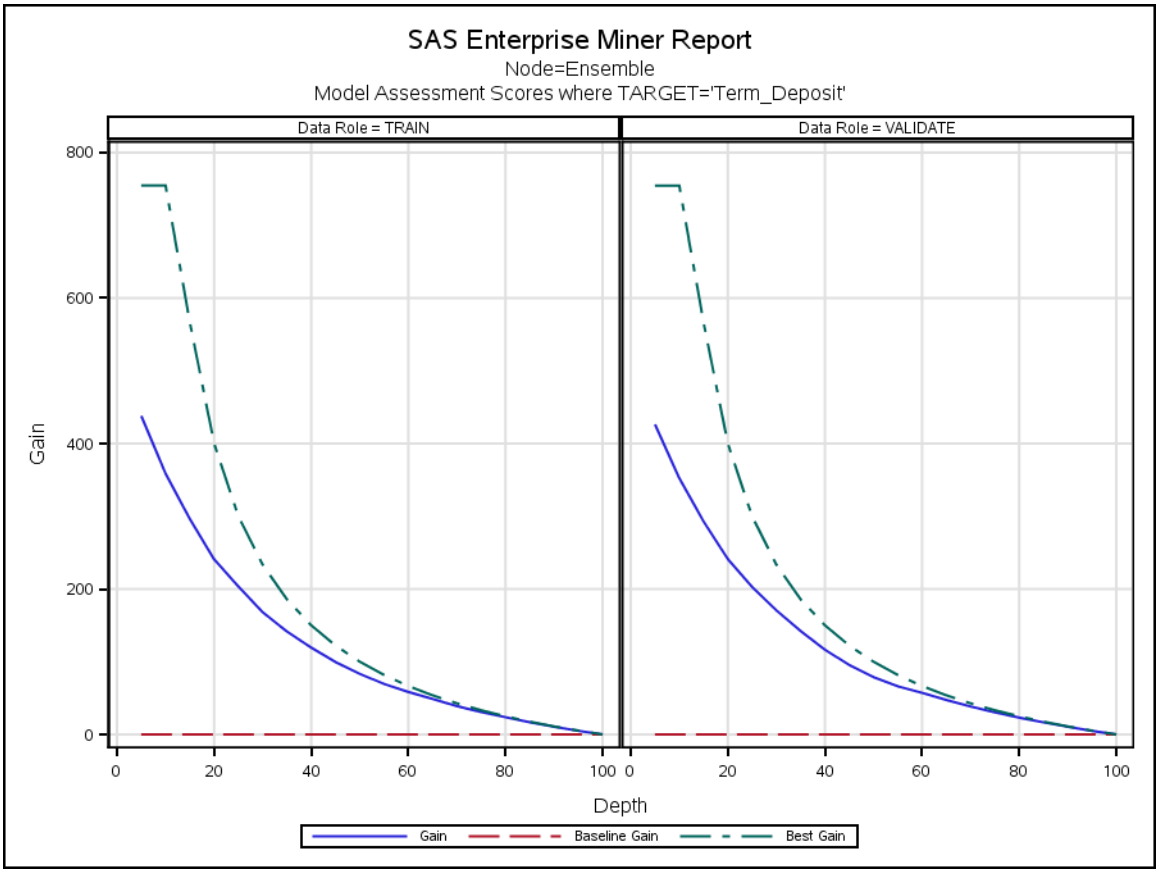
Node=Ensemble
Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	Term_Deposit
INPUT	INTERVAL	6	PC_1 PC_10 PC_12 PC_13 PC_14 PC_2

Node=Ensemble
Model Fit Statistics

Target=Term_Deposit Target Label=' '

Label of Statistic	Train	Validation	Test
Average Squared Error	0.08	0.08	0.08
Divisor for ASE	54250.00	18084.00	18088.00
Maximum Absolute Error	0.97	0.97	0.97
Sum of Frequencies	27125.00	9042.00	9044.00
Root Average Squared Error	0.28	0.28	0.28
Sum of Squared Errors	4206.72	1418.16	1427.98
Frequency of Classified Cases	27125.00	9042.00	9044.00
Misclassification Rate	0.10	0.11	0.11
Number of Wrong Classifications	2839.00	952.00	957.00


SAS Enterprise Miner Report
Node=Ensemble
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Gain
800
600
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200
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0
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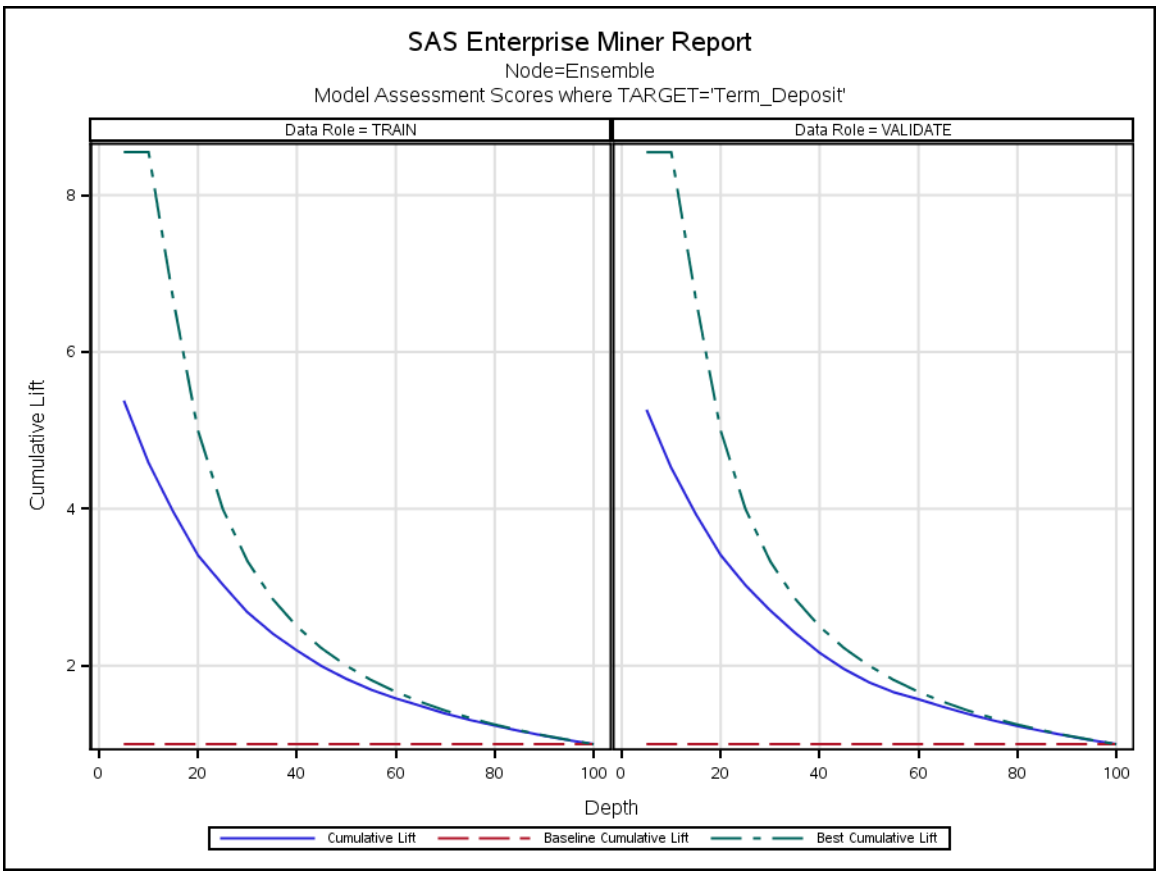
40
60
80
100
Depth
Gain
Baseline Gain
Best Gain


SAS Enterprise Miner Report
Node=Ensemble
Model Assessment Scores where TARGET='Term_Deposit'
Data Role = TRAIN
Data Role = VALIDATE
Cumulative Lift
8
6
4
2
0
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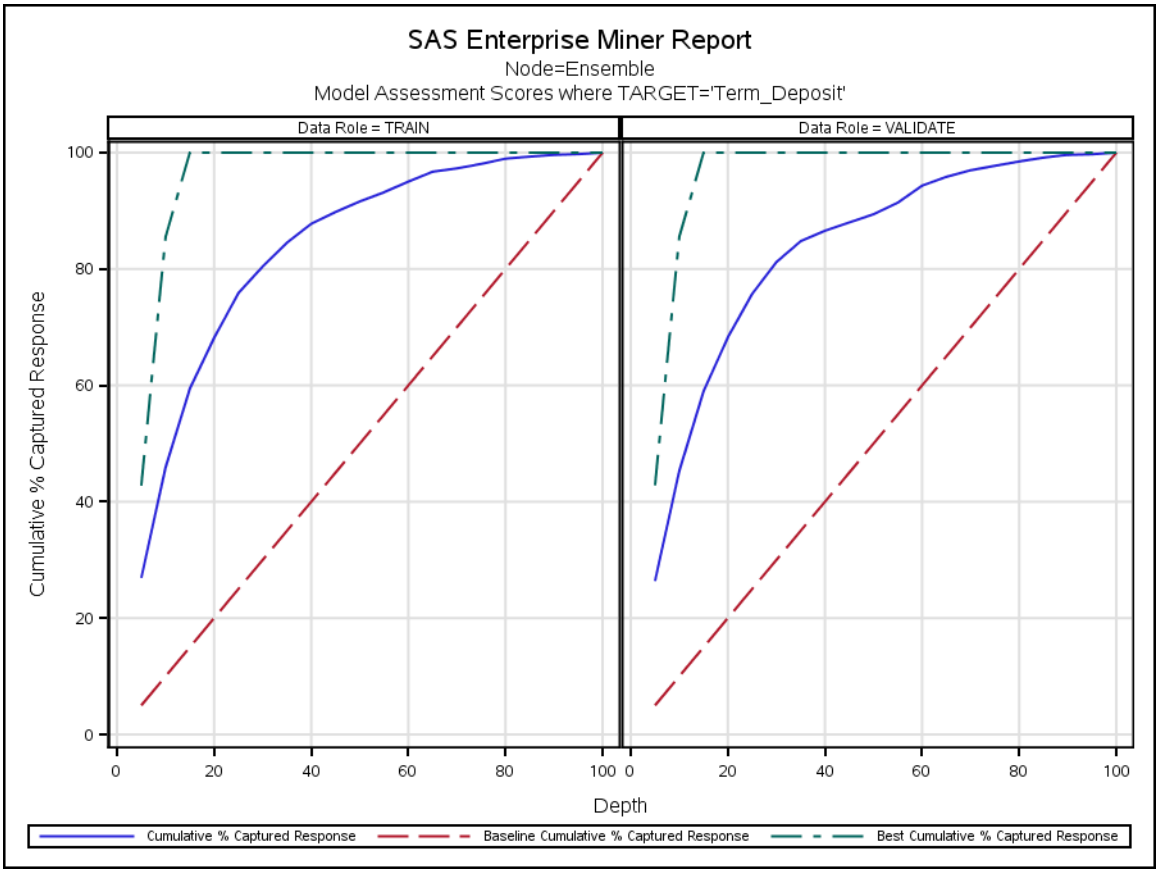
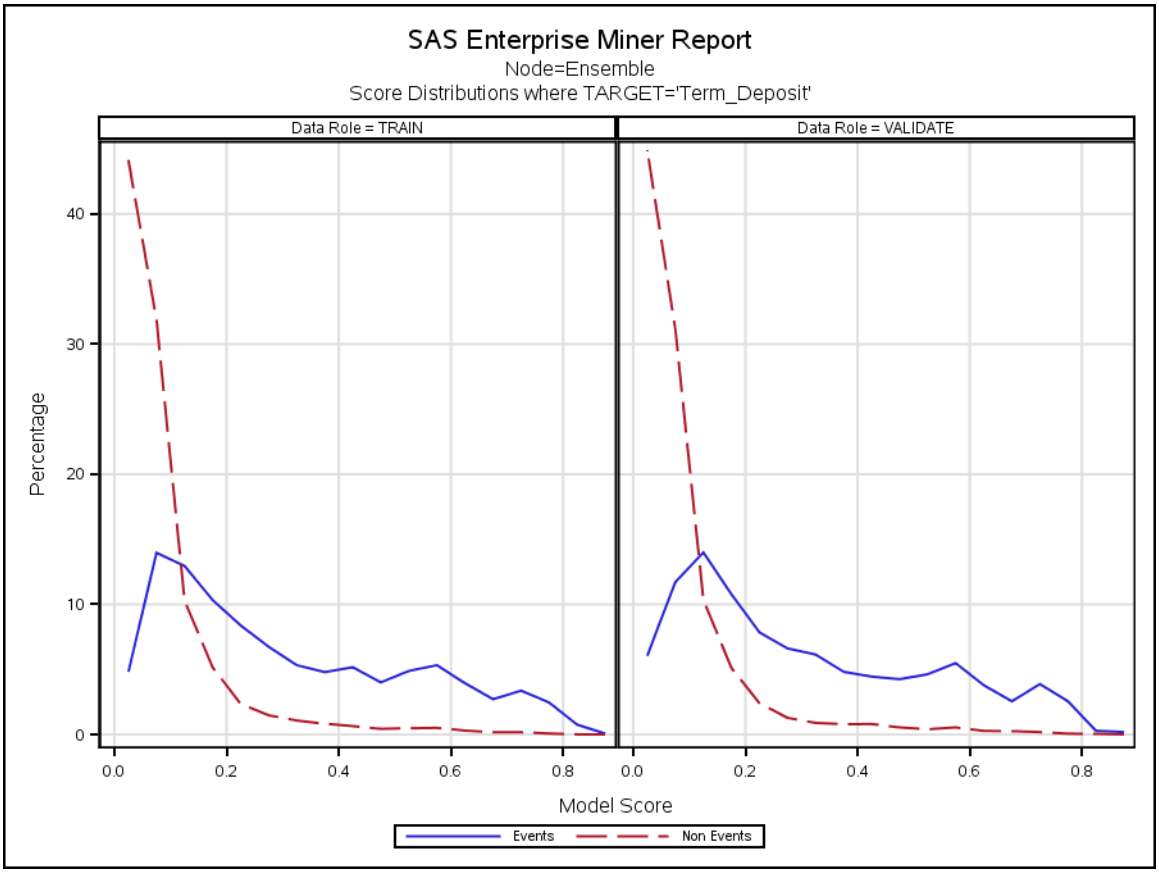
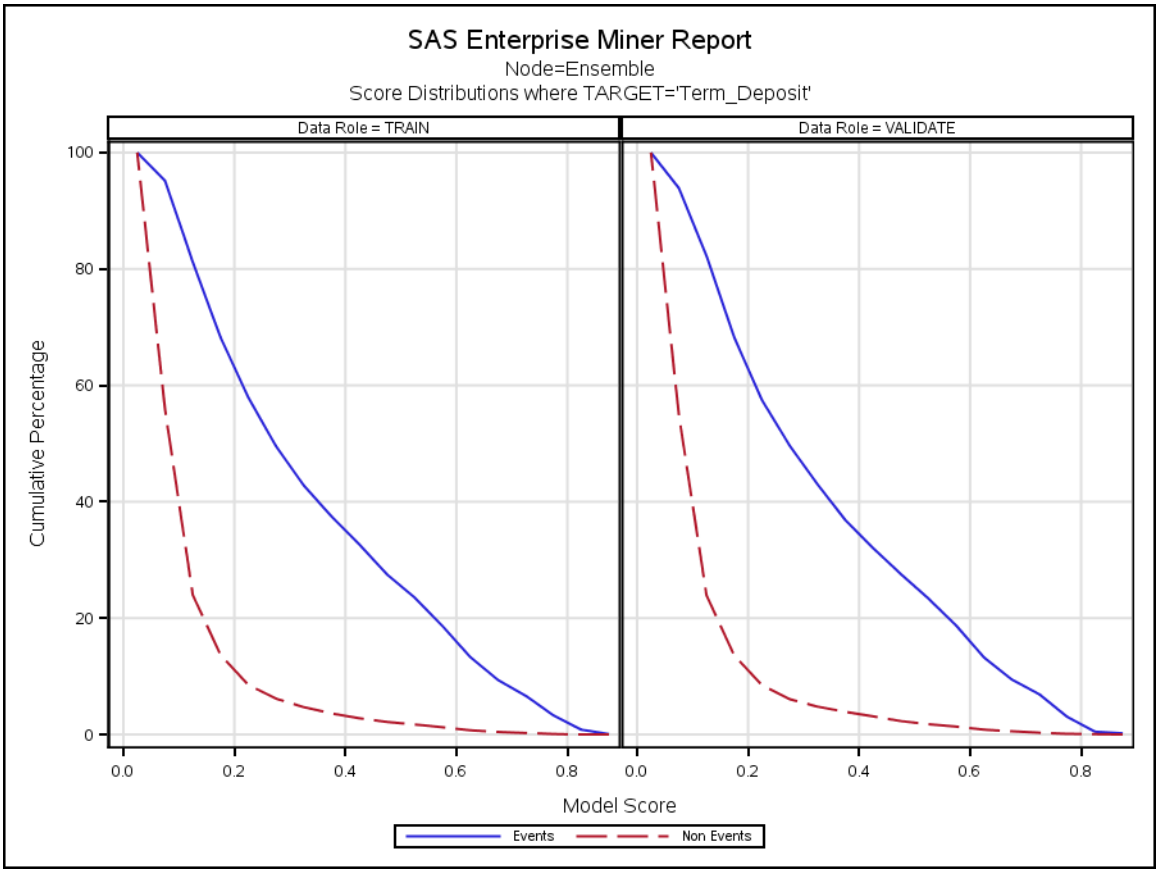
40
60
80
100
Depth
Cumulative Lift
Baseline Cumulative Lift
Best Cumulative Lift

SAS Enterprise Miner Report
Node=Ensemble
Model Assessment Scores where TARGET='Term_Deposit'





SAS Enterprise Miner Report
Node=Ensemble
Score Distributions where TARGET='Term_Deposit'



Node=Ensemble
Score Distributions

Target Variable=Term_Deposit 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	2	0.0630	0.0000	0.063	0.000
0.80-0.85	24	0.7564	0.0084	0.819	0.008
0.75-0.80	78	2.4582	0.0793	3.278	0.088
0.70-0.75	107	3.3722	0.1754	6.650	0.263
0.65-0.70	86	2.7104	0.1712	9.360	0.434
0.60-0.65	125	3.9395	0.2964	13.300	0.731
0.55-0.60	169	5.3262	0.5052	18.626	1.236
0.50-0.55	155	4.8850	0.4843	23.511	1.720
0.45-0.50	127	4.0025	0.4342	27.513	2.154
0.40-0.45	164	5.1686	0.6388	32.682	2.793
0.35-0.40	152	4.7904	0.8267	37.472	3.620
0.30-0.35	169	5.3262	1.0772	42.799	4.697
0.25-0.30	214	6.7444	1.4696	49.543	6.166
0.20-0.25	266	8.3832	2.3547	57.926	8.521
0.15-0.20	328	10.3372	5.1645	68.263	13.686
0.10-0.15	411	12.9530	10.2914	81.217	23.977
0.05-0.10	443	13.9616	31.8804	95.178	55.858
0.00-0.05	153	4.8219	44.1425	100.000	100.000

Target Variable=Term_Deposit Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.85-0.90	2	0.1890	0.0000	0.189	0.000
0.80-0.85	3	0.2836	0.0501	0.473	0.050
0.75-0.80	27	2.5520	0.0626	3.025	0.113
0.70-0.75	41	3.8752	0.1879	6.900	0.301
0.65-0.70	27	2.5520	0.2505	9.452	0.551
0.60-0.65	40	3.7807	0.2756	13.233	0.827
0.55-0.60	58	5.4820	0.5386	18.715	1.365
0.50-0.55	49	4.6314	0.4008	23.346	1.766
0.45-0.50	45	4.2533	0.5386	27.599	2.305
0.40-0.45	47	4.4423	0.8016	32.042	3.106
0.35-0.40	51	4.8204	0.7891	36.862	3.895
0.30-0.35	65	6.1437	0.8893	43.006	4.785
0.25-0.30	70	6.6163	1.2776	49.622	6.062
0.20-0.25	83	7.8450	2.4048	57.467	8.467
0.15-0.20	114	10.7750	5.1102	68.242	13.577
0.10-0.15	148	13.9887	10.3457	82.231	23.923
0.05-0.10	124	11.7202	31.1623	93.951	55.085
0.00-0.05	64	6.0491	44.9148	100.000	100.000

End of Report