

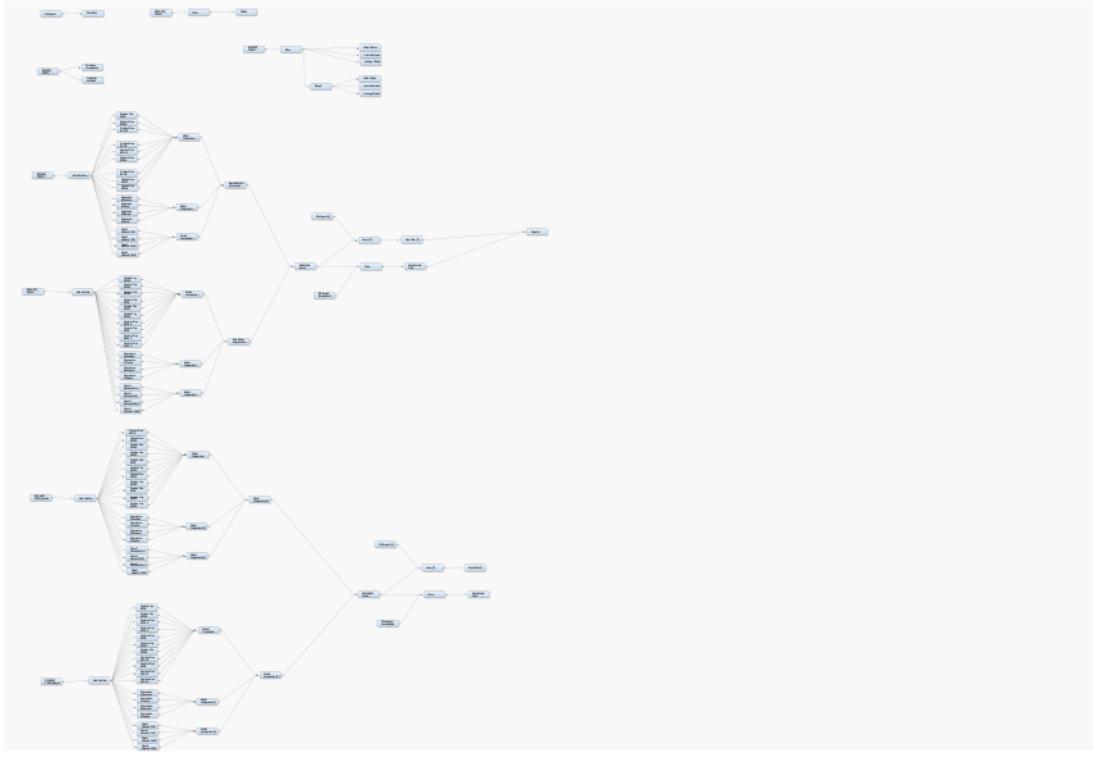
SAS Enterprise Miner Report

User = hbath
Date = 00:22:31 December 15
Project = DroughtPrediction
Diagram = DroughtPredictionv1

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

Format = PDF
Style = LISTING

SAS Enterprise Miner Report
Process Flow Diagram



SAS Enterprise Miner Report

Node=DROUGHT_TRAIN Summary

Node id = lds6
 Node label = DROUGHT_TRAIN
 Meta path = lds6
 Notes =

Node=DROUGHT_TRAIN Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	hbath		NBytes	24577024	.
ApplyIntervalLevelLowerLimit	Y		DsId	droughttrain		NCols	27	.
ApplyMaxClassLevels	Y		DsModifiedBy	hbath		NObs	105553	.
ApplyMaxPercentMissing	Y		DsModifyDate	2049577990.6		NewTable		
CMeta	WORK.M01XBUAI		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	VIEW	
DBPassThrough	Y		DsSampleSizeType			Role	RAW	TRAIN
Data	LOCALLIB.DROUGHT_TRAIN		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y		SampleSizeObs	10000	
DataSource	droughttrain		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	LOCALLIB		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Y		MaxPercentMissing	50		Segment		
DsCreateDate	2049577990.5		MetaAdvisor	BASIC		Table	DROUGHT_TRAIN	

Node=DROUGHT_TRAIN

Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	DROUGHT_TRAIN	Date Created	10Dec2024:17:48:23	Data Size	24577024
Data Type	DATA	Date Modified	10Dec2024:17:48:23	Role	RAW
Data Label		Number Rows	105553	Segment	
Engine	BASE	Number Columns	27	Data Library	LOCALLIB

Node=DROUGHT_TRAIN

Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
PRECTOT	PRECTOT	INPUT	INTERVAL	N	8	BEST.	
PS	PS	INPUT	INTERVAL	N	8	BEST.	
QV2M	QV2M	INPUT	INTERVAL	N	8	BEST.	
T2M	T2M	INPUT	INTERVAL	N	8	BEST.	
T2MDEW	T2MDEW	INPUT	INTERVAL	N	8	BEST.	
T2MWET	T2MWET	REJECTED	INTERVAL	N	8	BEST.	
T2M_MAX	T2M_MAX	REJECTED	INTERVAL	N	8	BEST.	
T2M_MIN	T2M_MIN	REJECTED	INTERVAL	N	8	BEST.	
T2M_RANGE	T2M_RANGE	REJECTED	INTERVAL	N	8	BEST.	
TS	TS	INPUT	INTERVAL	N	8	BEST.	
WS10M	WS10M	INPUT	INTERVAL	N	8	BEST.	

Name	Label	Role	Level	Type	Length	Format	Creator
WS10M_MAX	WS10M_MAX	REJECTED	INTERVAL	N	8	BEST.	
WS10M_MIN	WS10M_MIN	REJECTED	INTERVAL	N	8	BEST.	
WS10M_RANGE	WS10M_RANGE	REJECTED	INTERVAL	N	8	BEST.	
WS50M	WS50M	INPUT	INTERVAL	N	8	BEST.	
WS50M_MAX	WS50M_MAX	REJECTED	INTERVAL	N	8	BEST.	
WS50M_MIN	WS50M_MIN	REJECTED	INTERVAL	N	8	BEST.	
WS50M_RANGE	WS50M_RANGE	REJECTED	INTERVAL	N	8	BEST.	
country	country	REJECTED	NOMINAL	C	13	\$13.	
date	date	TIMEID	INTERVAL	N	8	MMDDYY10.0	
fips	fips	REJECTED	NOMINAL	N	8	BEST.	
month	month	INPUT	ORDINAL	N	8	BEST.	
score	score	REJECTED	INTERVAL	N	8	BEST.	
score1	score1	REJECTED	ORDINAL	N	8	BEST.	
score2	score2	TARGET	BINARY	N	8	BEST.	
state	state	INPUT	NOMINAL	C	14	\$14.	
year	year	INPUT	NOMINAL	N	8	BEST.	

SAS Enterprise Miner Report

Node=Data Partition Summary

Node id = Part3
 Node label = Data Partition
 Meta path = lds6 => Part3
 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
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
REJECTED	INTERVAL	11	T2MWET T2M_MAX T2M_MIN T2M_RANGE WS10M_MAX WS10M_MIN WS10M_RANGE WS50M_MAX WS50M_MIN WS50M_RANGE score
REJECTED	NOMINAL	2	country fips
REJECTED	ORDINAL	1	score1
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

SAS Enterprise Miner Report

Node=Decision Tree B4D16 Summary

Node id = Tree17
 Node label = Decision Tree B4D16
 Meta path = lds6 => Part3 => Tree17
 Notes =

Node=Decision Tree B4D16 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	16	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B4D16 Variable Summary

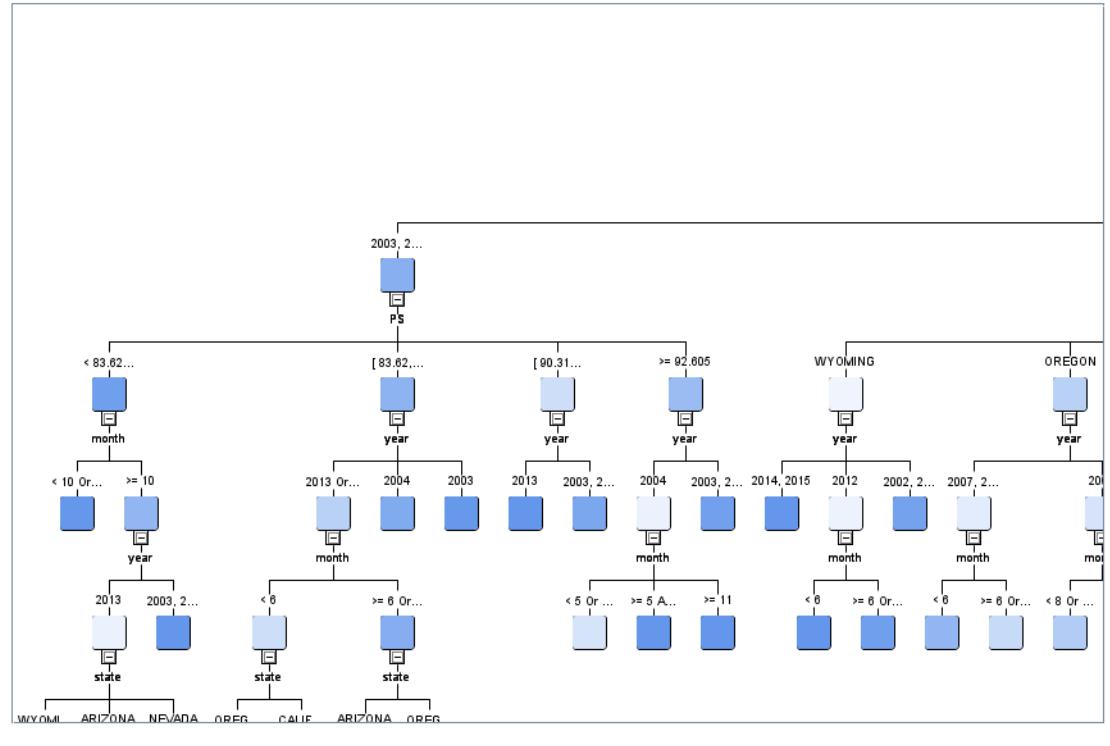
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D16 Model Fit Statistics

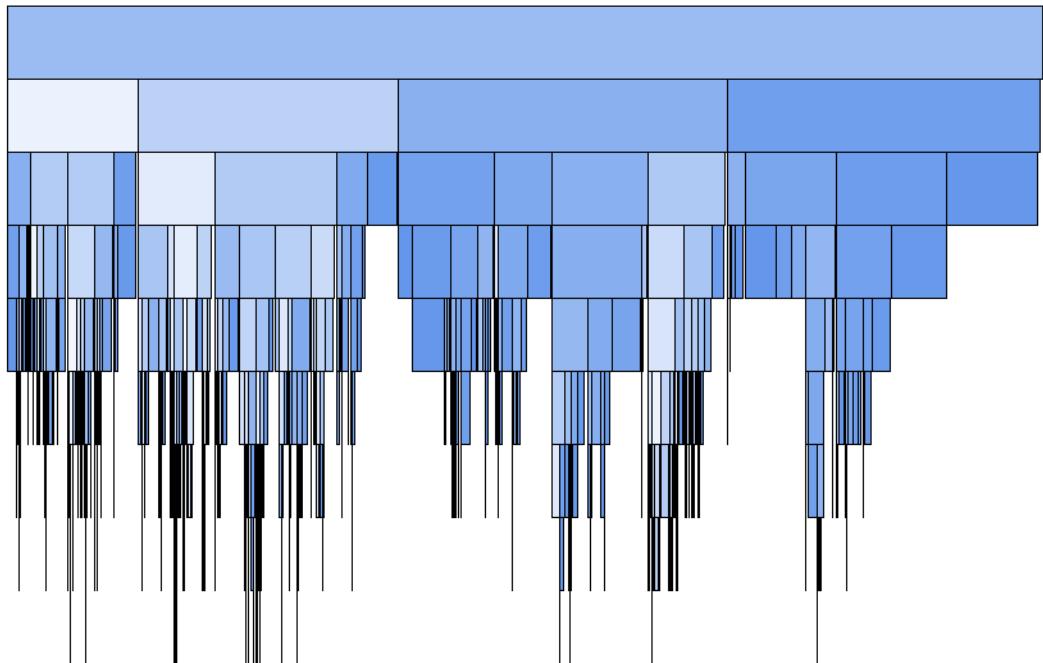
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.07	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6766.78	2416.51	2528.11
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.24
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

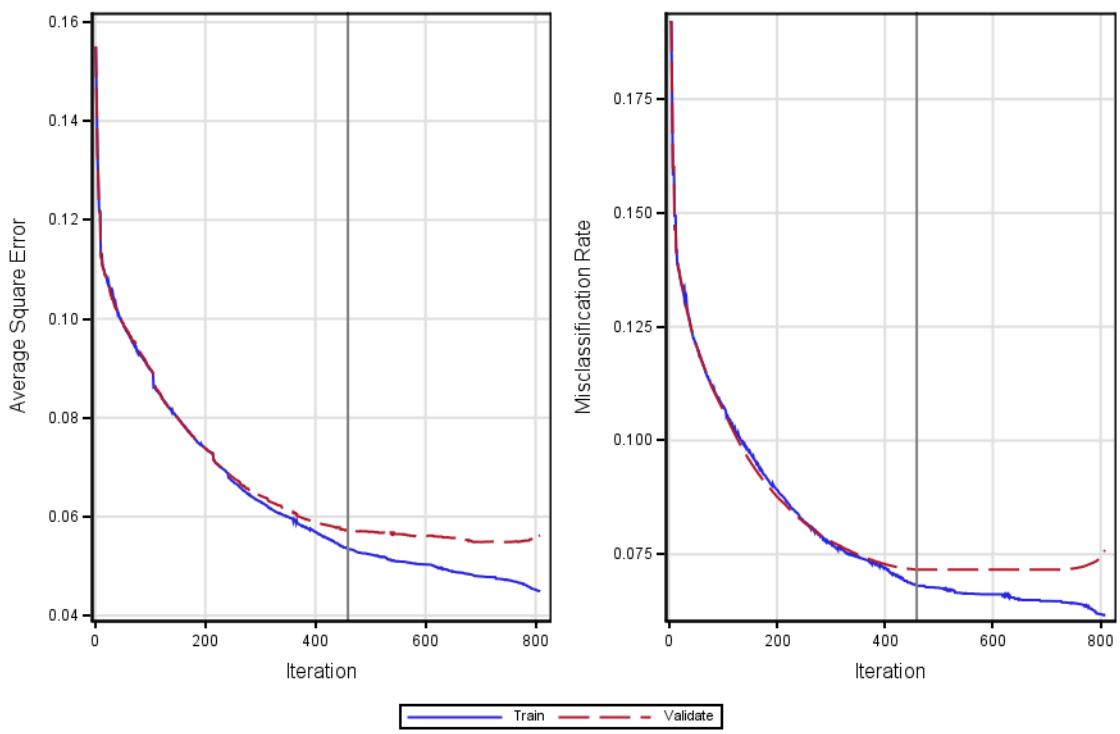
SAS Enterprise Miner Report
Node=Decision Tree B4D16
Tree Diagram

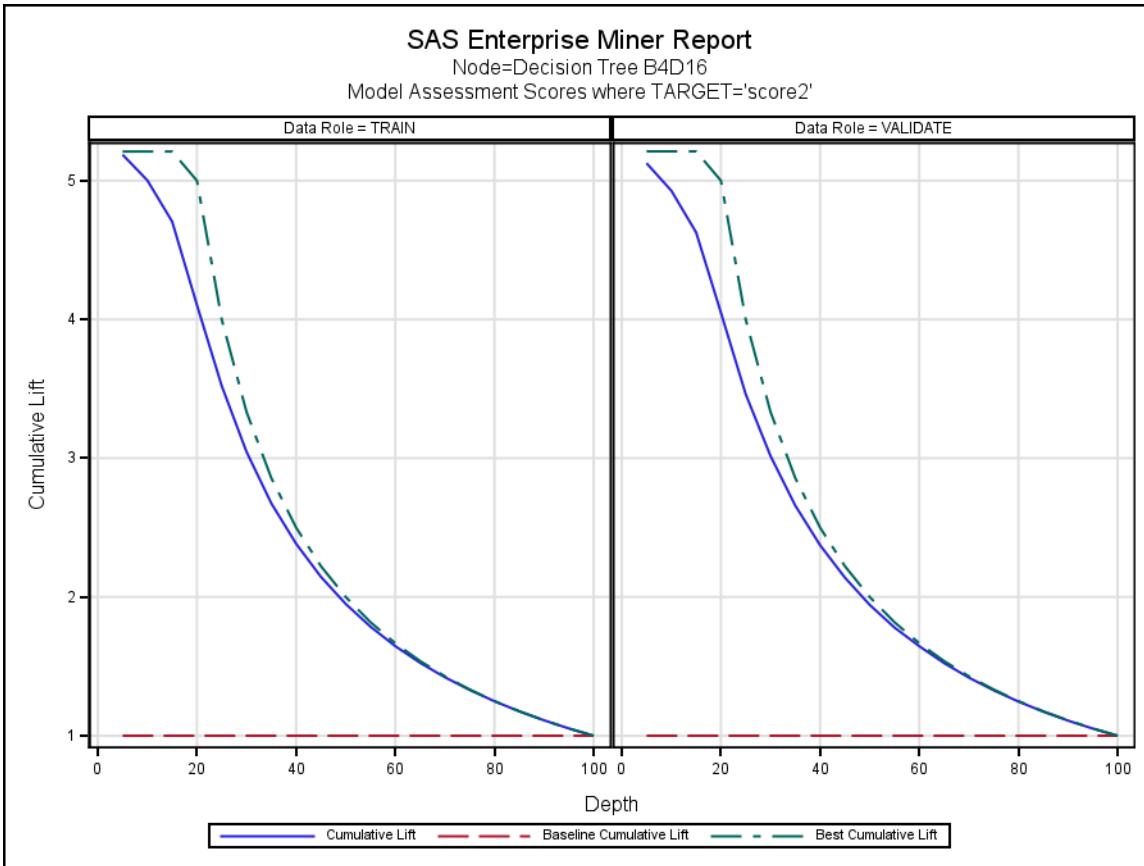
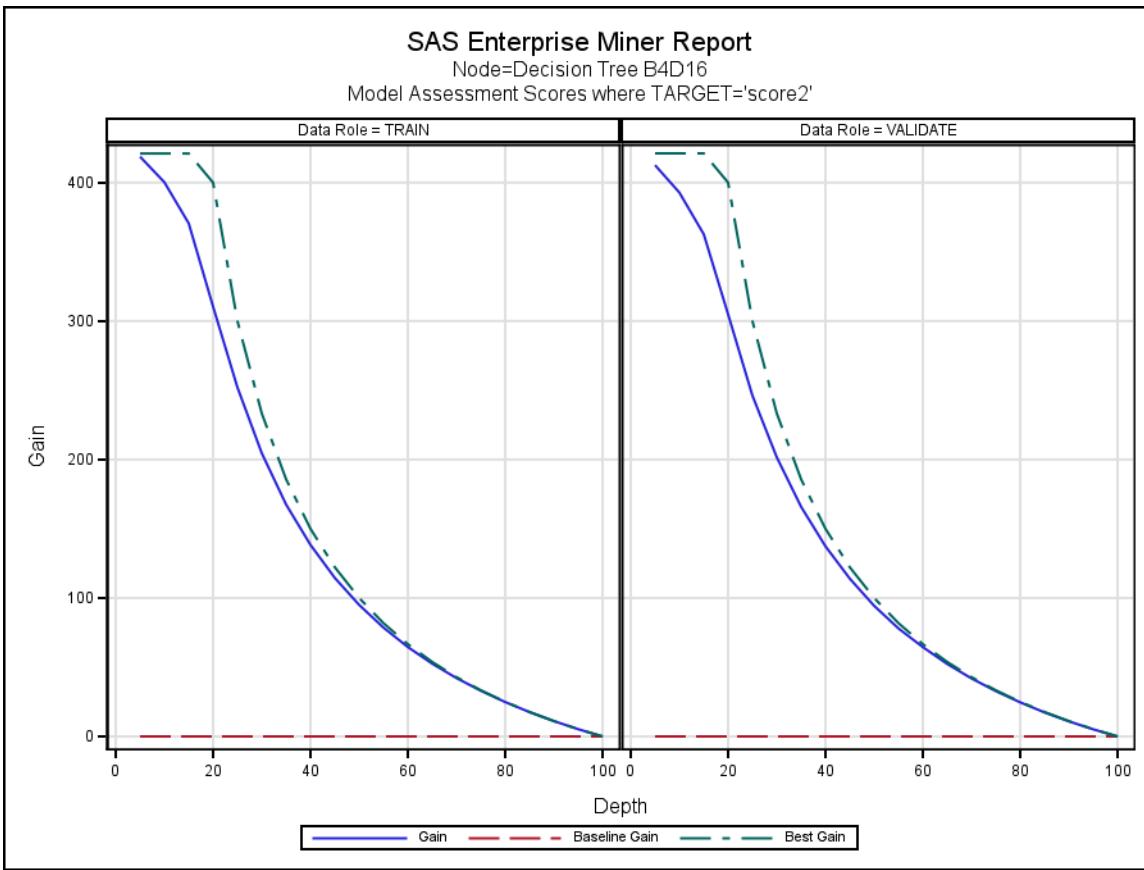


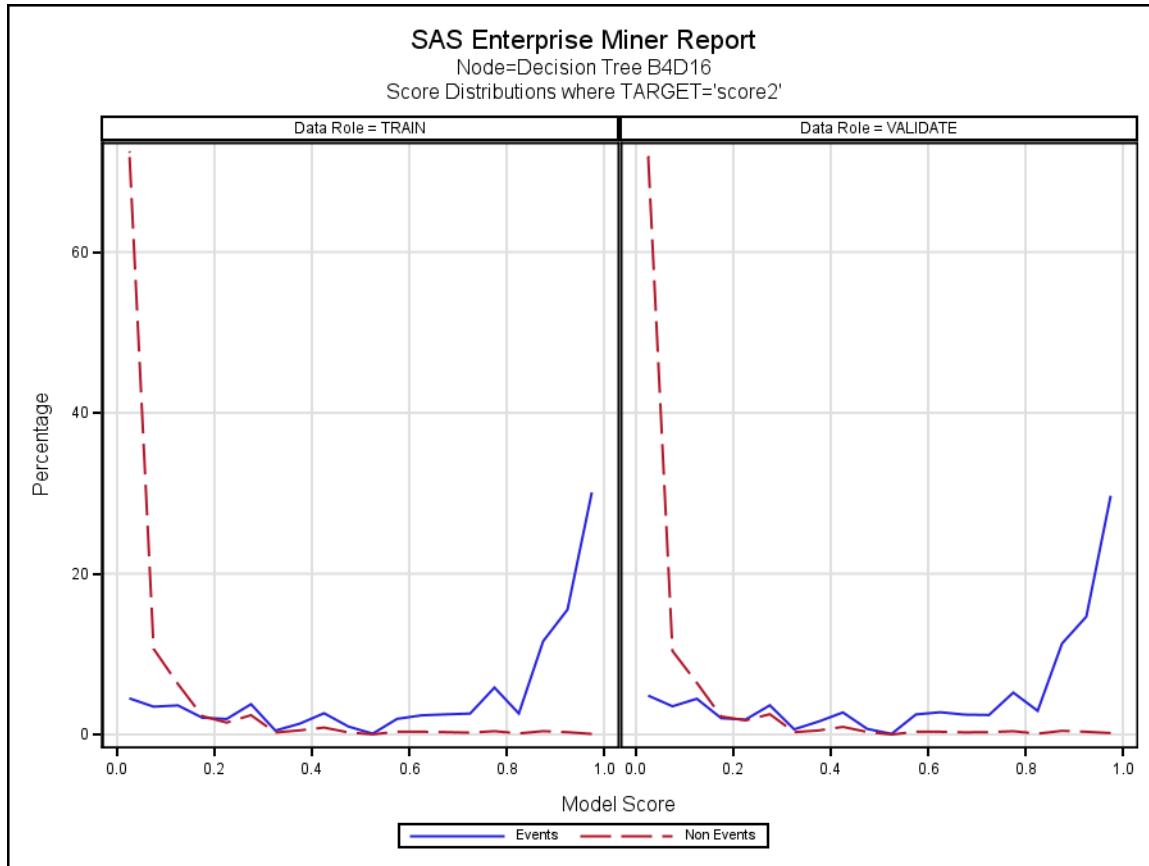
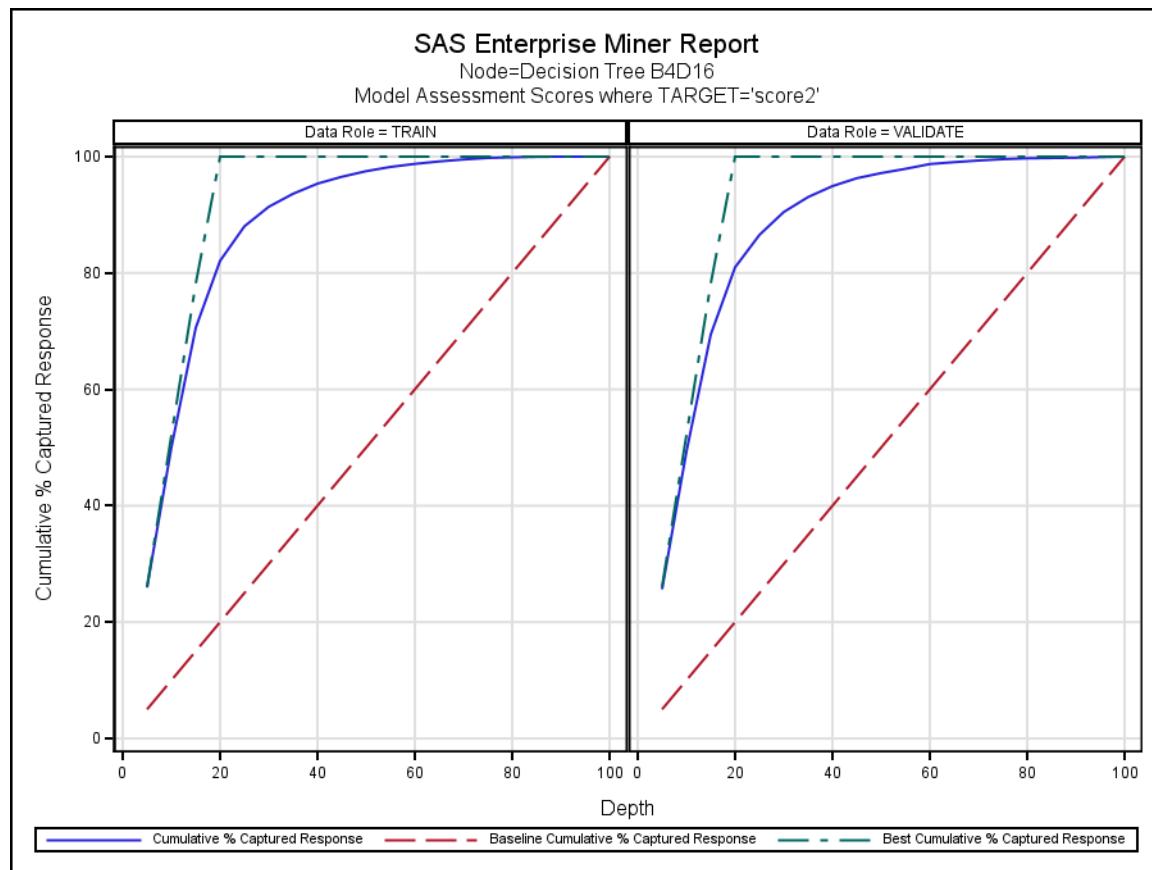
SAS Enterprise Miner Report
Node=Decision Tree B4D16
Treemap



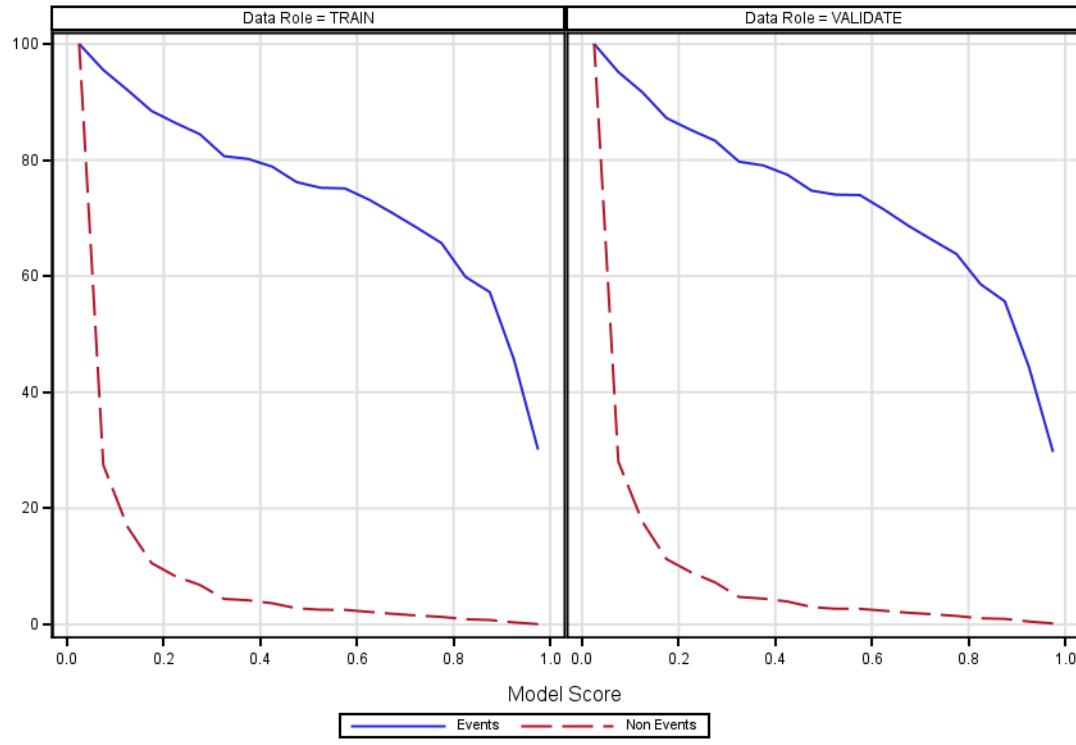
SAS Enterprise Miner Report
Node=Decision Tree B4D16
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B4D16
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D16

Score Distributions

Target Variable=score2 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	3661	30.1193	0.0703	30.119	0.070
0.90-0.95	1888	15.5327	0.2833	45.652	0.354
0.85-0.90	1410	11.6002	0.4143	57.252	0.768
0.80-0.85	317	2.6080	0.1309	59.860	0.899
0.75-0.80	709	5.8330	0.4103	65.693	1.309
0.70-0.75	316	2.5998	0.2267	68.293	1.536
0.65-0.70	304	2.5010	0.2912	70.794	1.827
0.60-0.65	289	2.3776	0.3420	73.172	2.169
0.55-0.60	236	1.9416	0.3478	75.113	2.517
0.50-0.55	12	0.0987	0.0195	75.212	2.536
0.45-0.50	120	0.9872	0.2560	76.199	2.792
0.40-0.45	321	2.6409	0.8559	78.840	3.648
0.35-0.40	163	1.3410	0.5100	80.181	4.158
0.30-0.35	59	0.4854	0.2443	80.666	4.402
0.25-0.30	458	3.7680	2.4015	84.434	6.804
0.20-0.25	234	1.9251	1.4753	86.360	8.279
0.15-0.20	253	2.0814	2.2862	88.441	10.565
0.10-0.15	439	3.6117	6.2666	92.053	16.832
0.05-0.10	420	3.4554	10.6398	95.508	27.472
0.00-0.05	546	4.4920	72.5281	100.000	100.000

Target Variable=score2 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	1203	29.6964	0.1759	29.696	0.176
0.90-0.95	594	14.6630	0.3341	44.359	0.510
0.85-0.90	458	11.3059	0.4514	55.665	0.961
0.80-0.85	119	2.9375	0.0997	58.603	1.061
0.75-0.80	211	5.2086	0.4045	63.811	1.466
0.70-0.75	98	2.4192	0.2931	66.231	1.759
0.65-0.70	100	2.4685	0.2638	68.699	2.022
0.60-0.65	112	2.7647	0.3341	71.464	2.357
0.55-0.60	101	2.4932	0.3400	73.957	2.697
0.50-0.55	3	0.0741	0.0000	74.031	2.697
0.45-0.50	28	0.6912	0.3107	74.722	3.007
0.40-0.45	111	2.7401	0.9438	77.462	3.951
0.35-0.40	65	1.6045	0.4983	79.067	4.449
0.30-0.35	26	0.6418	0.2872	79.709	4.737
0.25-0.30	147	3.6287	2.5207	83.337	7.257
0.20-0.25	75	1.8514	1.7527	85.189	9.010
0.15-0.20	82	2.0242	2.2393	87.213	11.249
0.10-0.15	180	4.4433	6.4248	91.656	17.674
0.05-0.10	142	3.5053	10.3816	95.162	28.056
0.00-0.05	196	4.8383	71.9444	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D20 Summary

Node id = Tree36
 Node label = Decision Tree B3D20
 Meta path = lds6 => Part3 => Tree36
 Notes =

Node=Decision Tree B3D20 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	20	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B3D20 Variable Summary

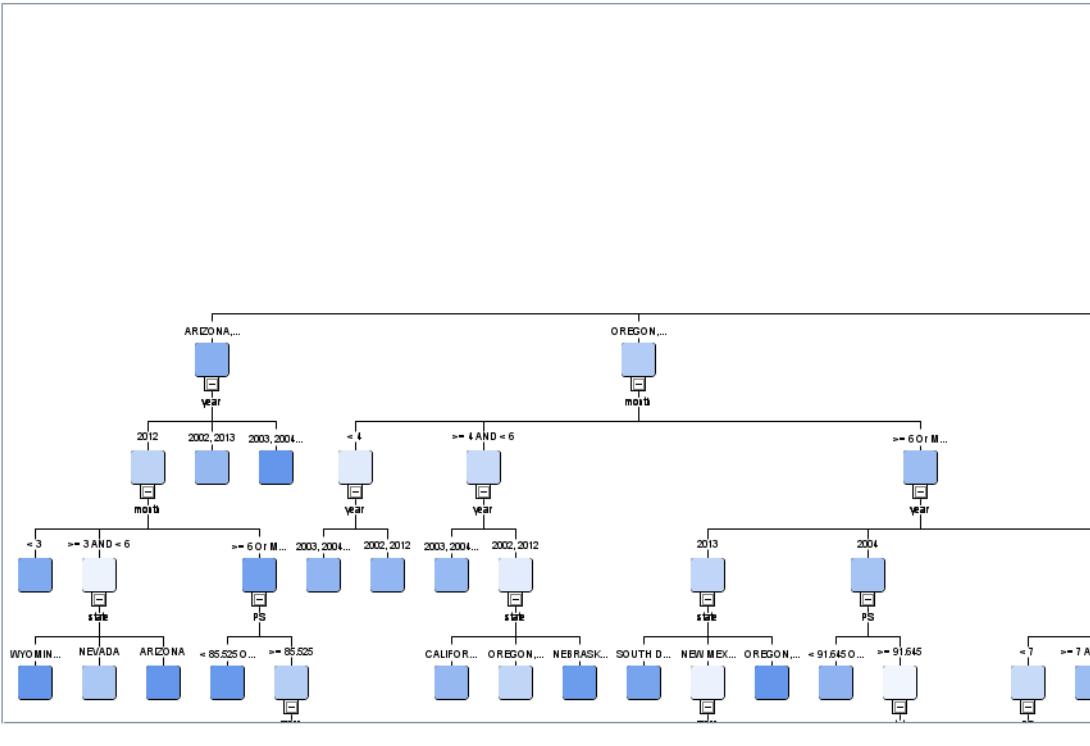
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D20 Model Fit Statistics

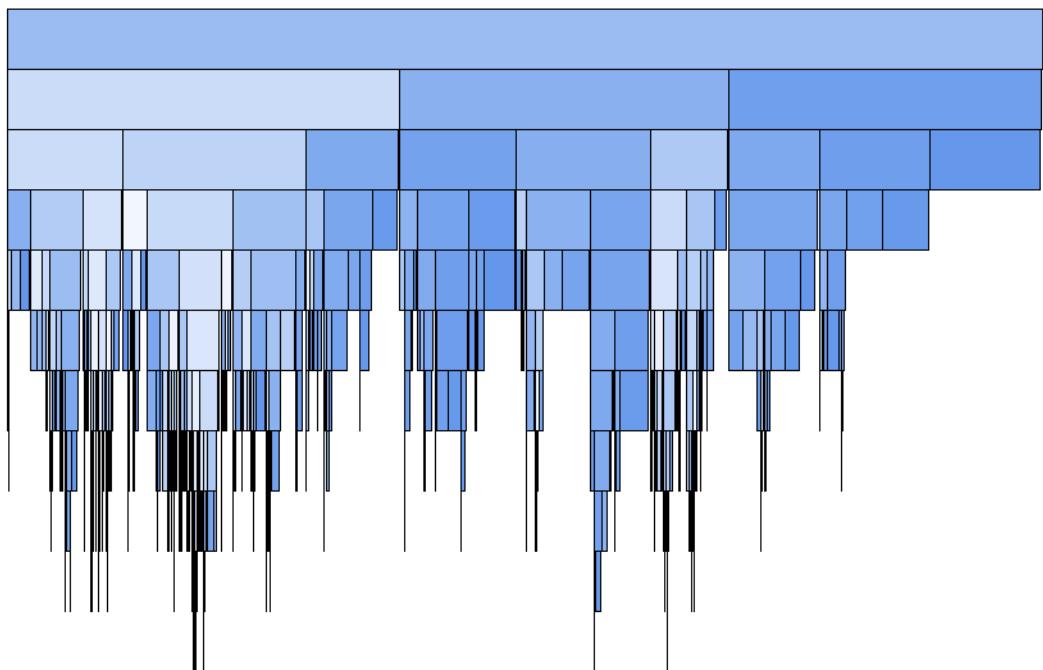
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	7475.90	2640.01	2808.53
Average Squared Error	0.06	0.06	0.07
Root Average Squared Error	0.24	0.25	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

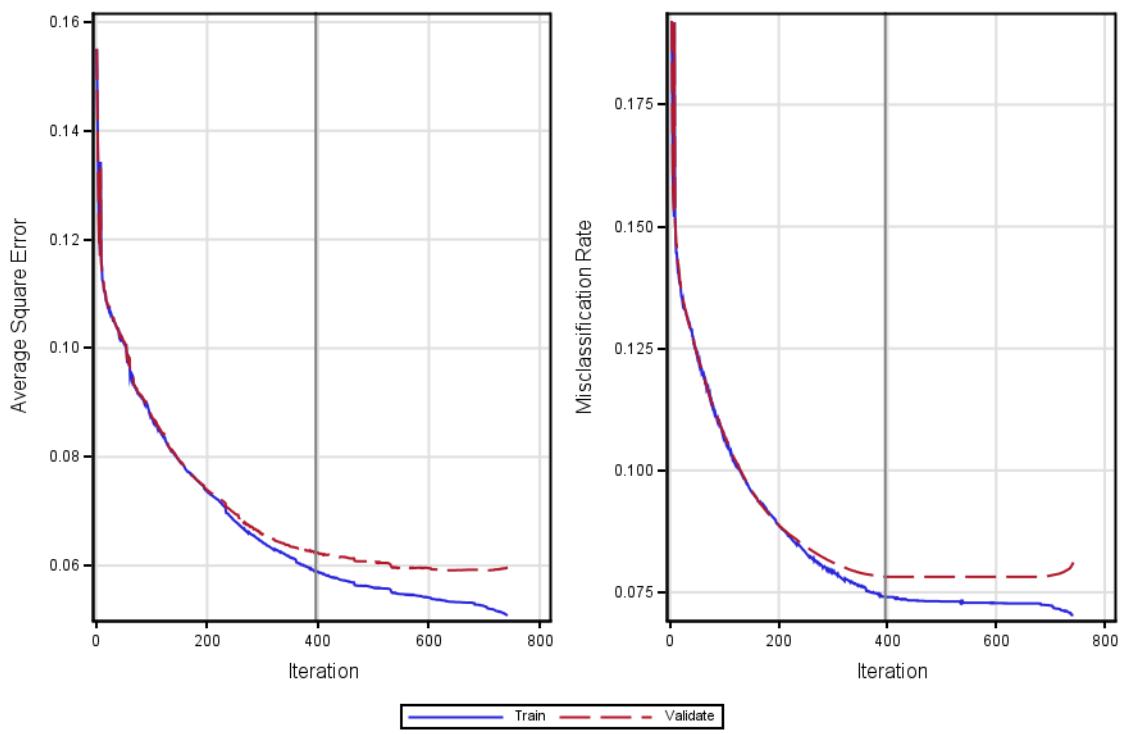
SAS Enterprise Miner Report
Node=Decision Tree B3D20
Tree Diagram

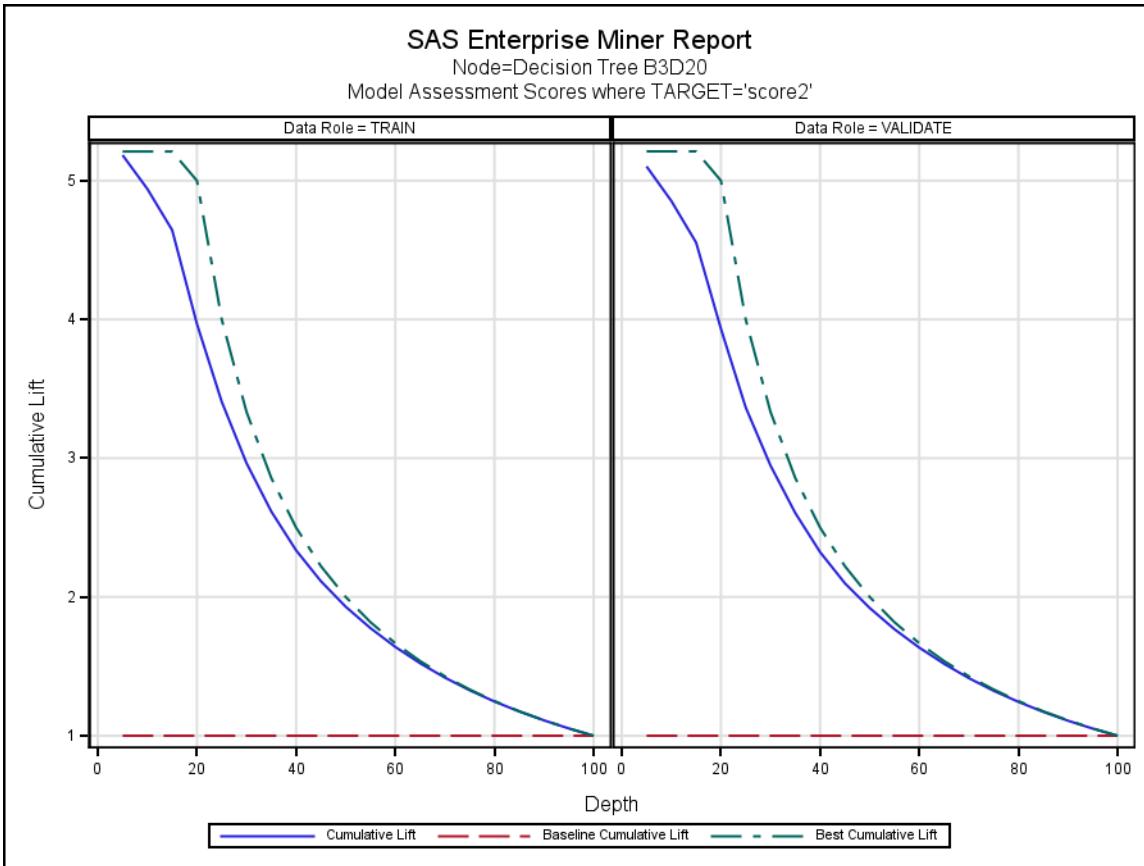
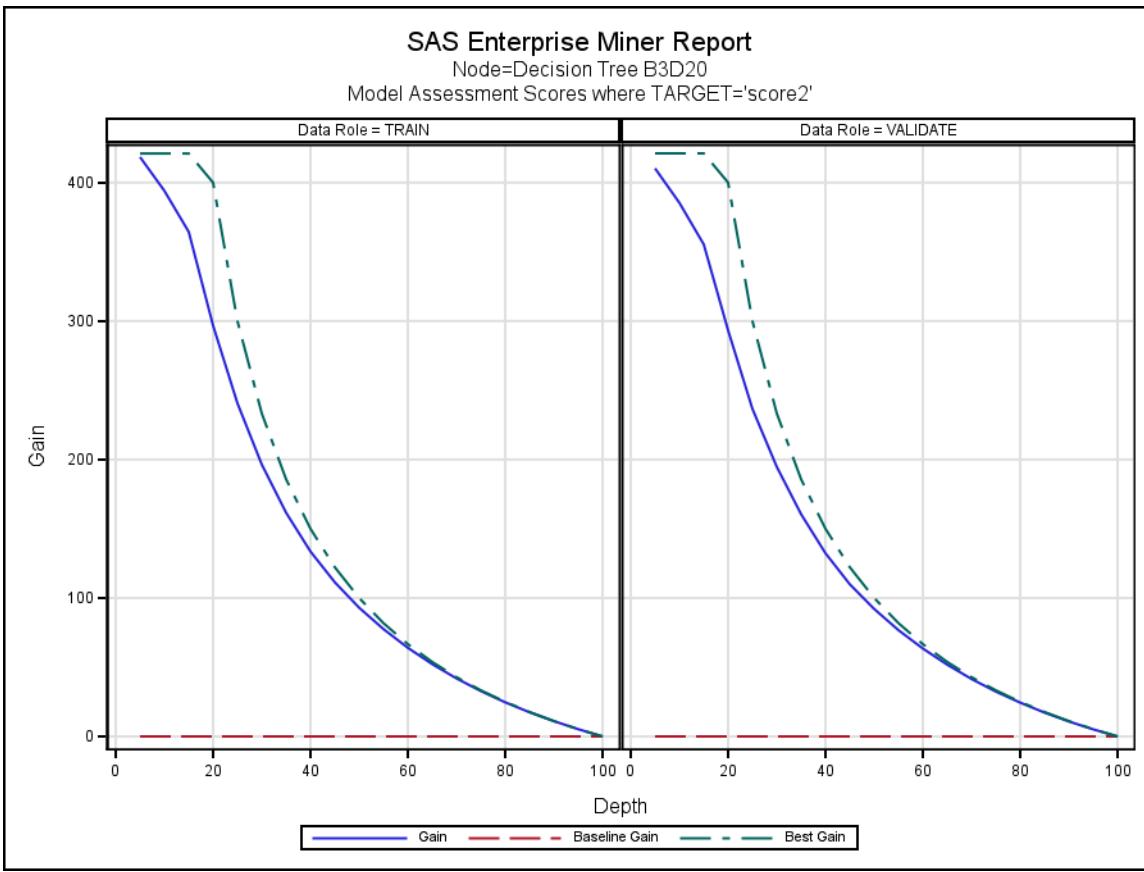


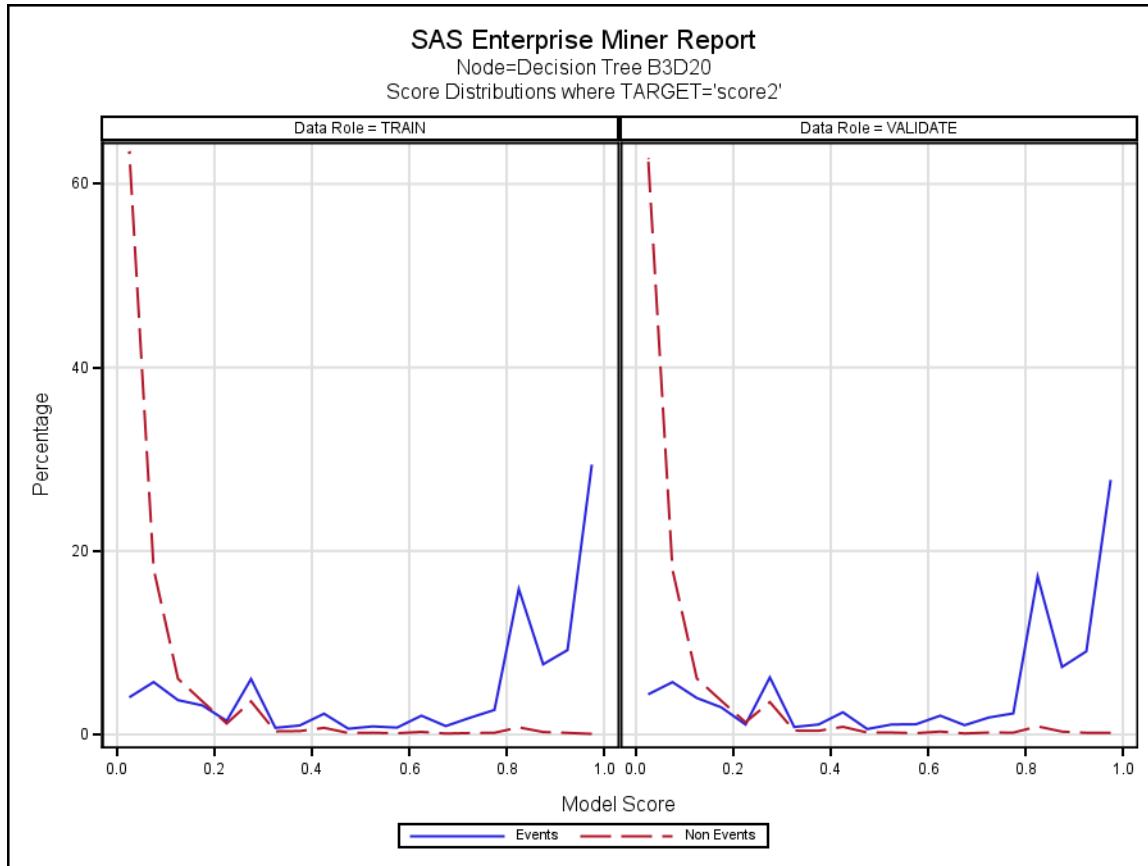
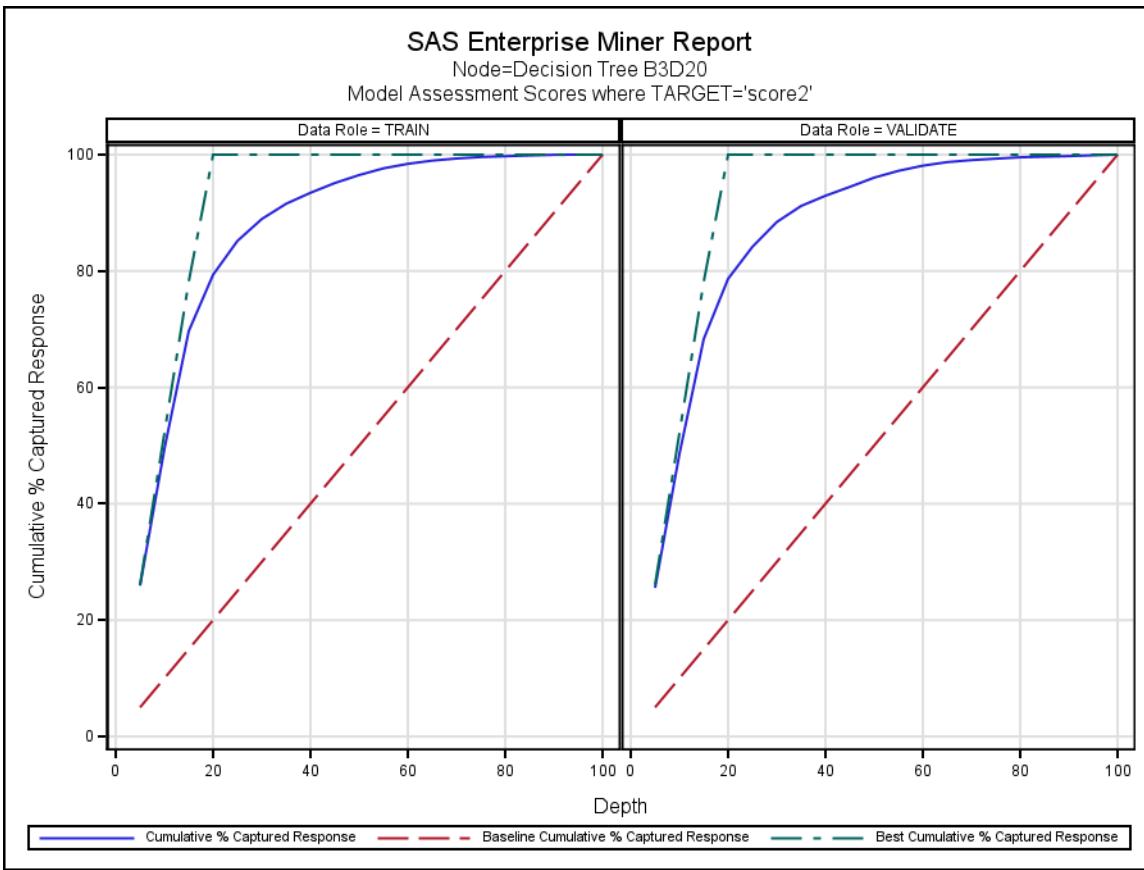
SAS Enterprise Miner Report
Node=Decision Tree B3D20
Treemap



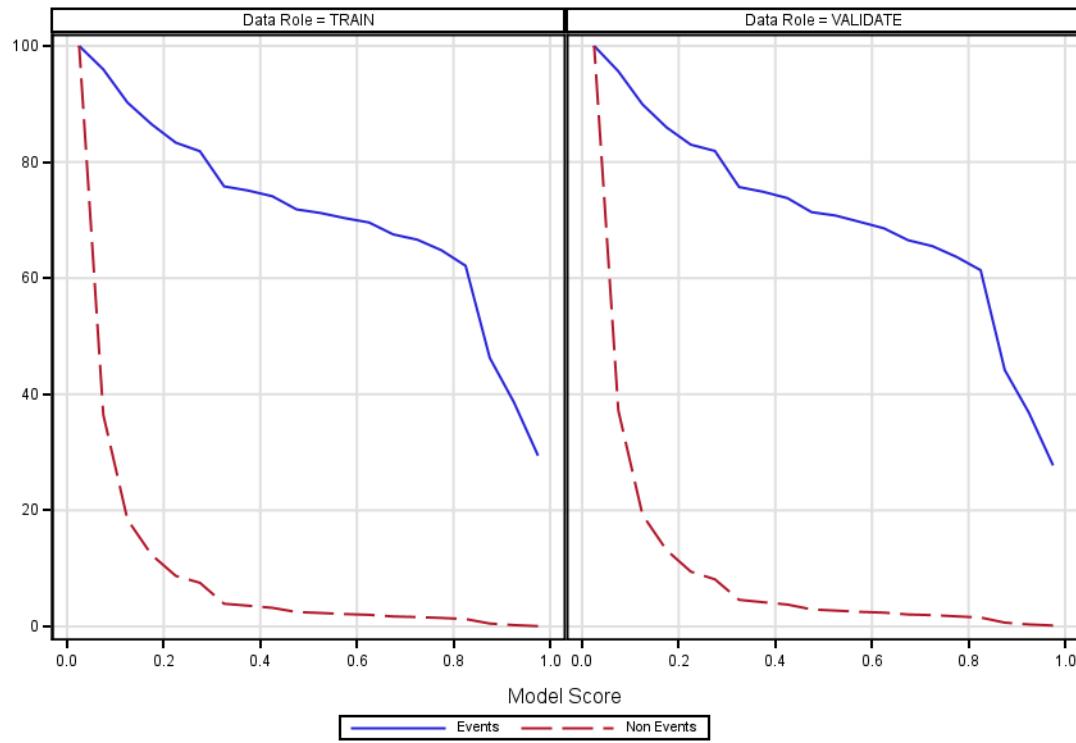
SAS Enterprise Miner Report
Node=Decision Tree B3D20
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B3D20
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D20

Score Distributions

Target Variable=score2 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	3576	29.4200	0.0645	29.420	0.064
0.90-0.95	1118	9.1979	0.1739	38.618	0.238
0.85-0.90	930	7.6512	0.2677	46.269	0.506
0.80-0.85	1927	15.8536	0.7758	62.123	1.282
0.75-0.80	325	2.6738	0.1837	64.796	1.466
0.70-0.75	222	1.8264	0.1563	66.623	1.622
0.65-0.70	111	0.9132	0.1016	67.536	1.723
0.60-0.65	249	2.0485	0.2814	69.585	2.005
0.55-0.60	91	0.7487	0.1309	70.333	2.136
0.50-0.55	107	0.8803	0.1876	71.213	2.323
0.45-0.50	76	0.6253	0.1622	71.839	2.486
0.40-0.45	275	2.2624	0.7230	74.101	3.209
0.35-0.40	119	0.9790	0.3674	75.080	3.576
0.30-0.35	88	0.7240	0.3400	75.804	3.916
0.25-0.30	735	6.0469	3.6052	81.851	7.521
0.20-0.25	180	1.4809	1.1939	83.332	8.715
0.15-0.20	385	3.1674	3.6169	86.499	12.332
0.10-0.15	455	3.7433	6.0732	90.243	18.405
0.05-0.10	694	5.7096	18.0397	95.952	36.445
0.00-0.05	492	4.0477	63.5552	100.000	100.000

Target Variable=score2 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	1124	27.7462	0.1700	27.746	0.170
0.90-0.95	367	9.0595	0.1817	36.806	0.352
0.85-0.90	298	7.3562	0.3107	44.162	0.662
0.80-0.85	697	17.2056	0.8793	61.368	1.542
0.75-0.80	93	2.2957	0.1993	63.663	1.741
0.70-0.75	75	1.8514	0.2110	65.515	1.952
0.65-0.70	41	1.0121	0.1114	66.527	2.063
0.60-0.65	83	2.0489	0.3165	68.576	2.380
0.55-0.60	45	1.1108	0.1407	69.686	2.521
0.50-0.55	44	1.0862	0.2110	70.773	2.732
0.45-0.50	24	0.5924	0.2110	71.365	2.943
0.40-0.45	98	2.4192	0.8324	73.784	3.775
0.35-0.40	44	1.0862	0.3986	74.870	4.174
0.30-0.35	33	0.8146	0.4162	75.685	4.590
0.25-0.30	252	6.2207	3.5289	81.906	8.119
0.20-0.25	44	1.0862	1.3307	82.992	9.450
0.15-0.20	120	2.9622	3.6813	85.954	13.131
0.10-0.15	161	3.9743	6.1024	89.928	19.233
0.05-0.10	231	5.7023	17.9612	95.631	37.194
0.00-0.05	177	4.3693	62.8056	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D10 Summary

Node id = Tree27
 Node label = Decision Tree B2D10
 Meta path = lds6 => Part3 => Tree27
 Notes =

Node=Decision Tree B2D10 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	10	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B2D10 Variable Summary

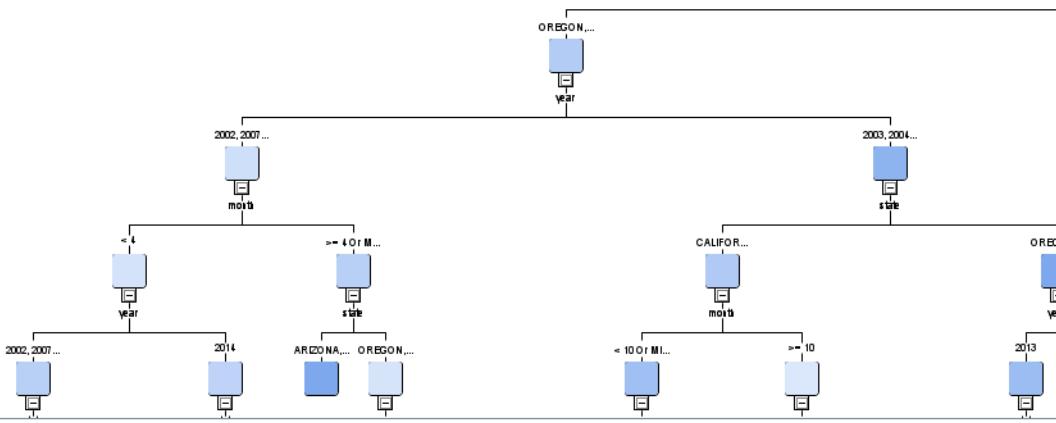
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D10 Model Fit Statistics

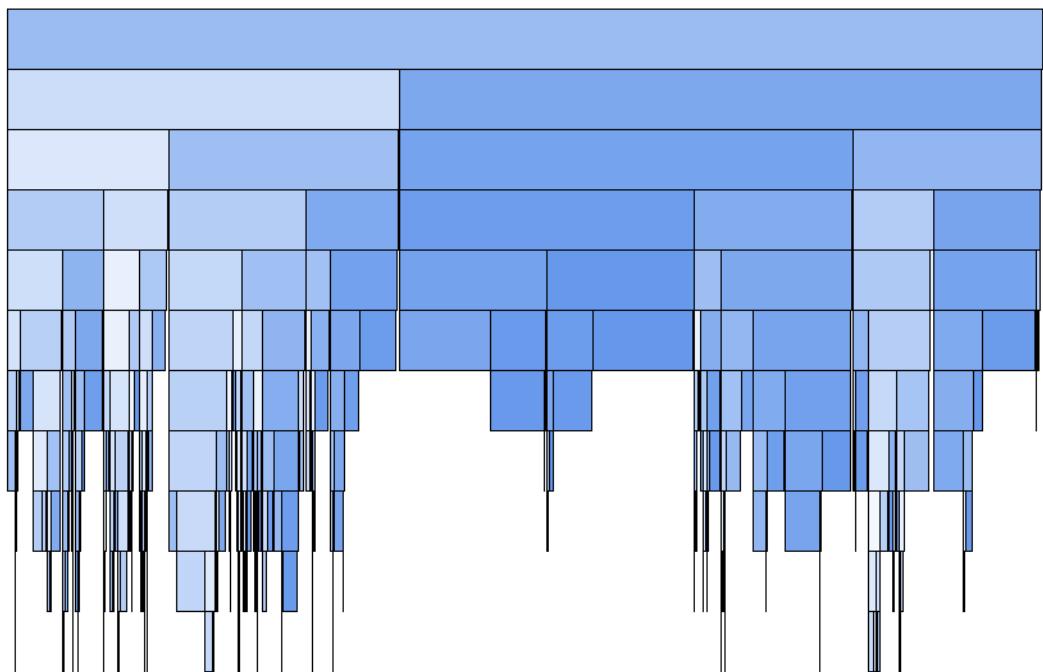
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.09	0.09	0.10
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	9339.40	3161.22	3289.73
Average Squared Error	0.07	0.07	0.08
Root Average Squared Error	0.27	0.27	0.28
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

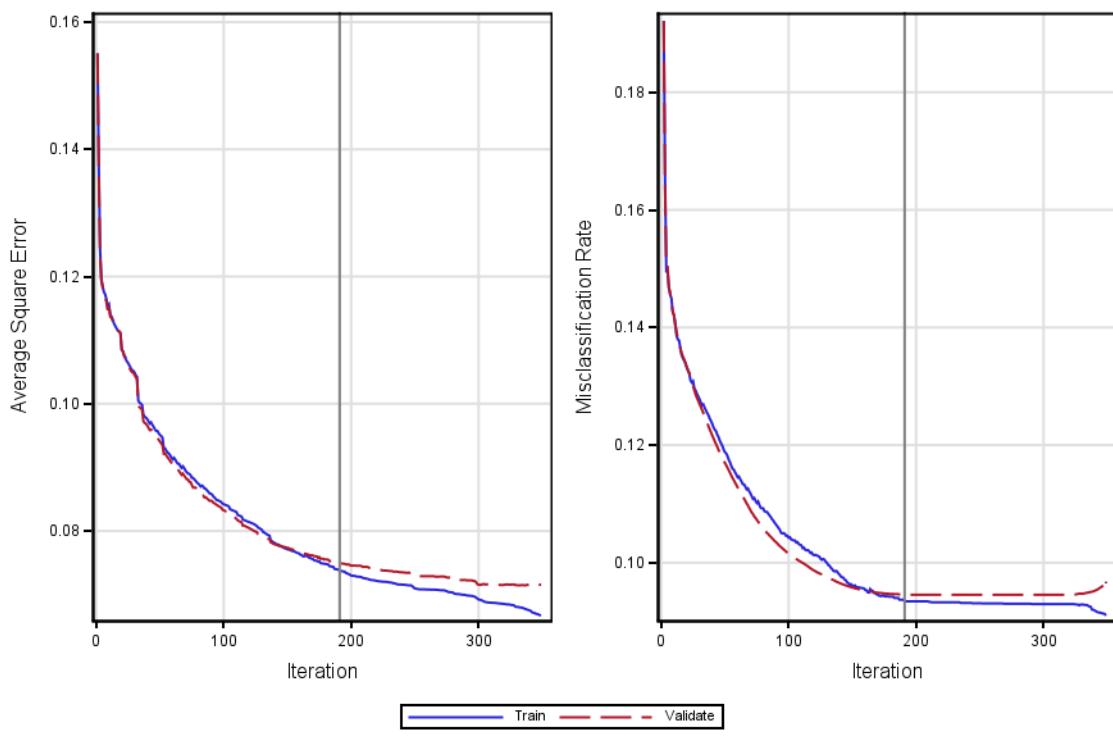
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Tree Diagram

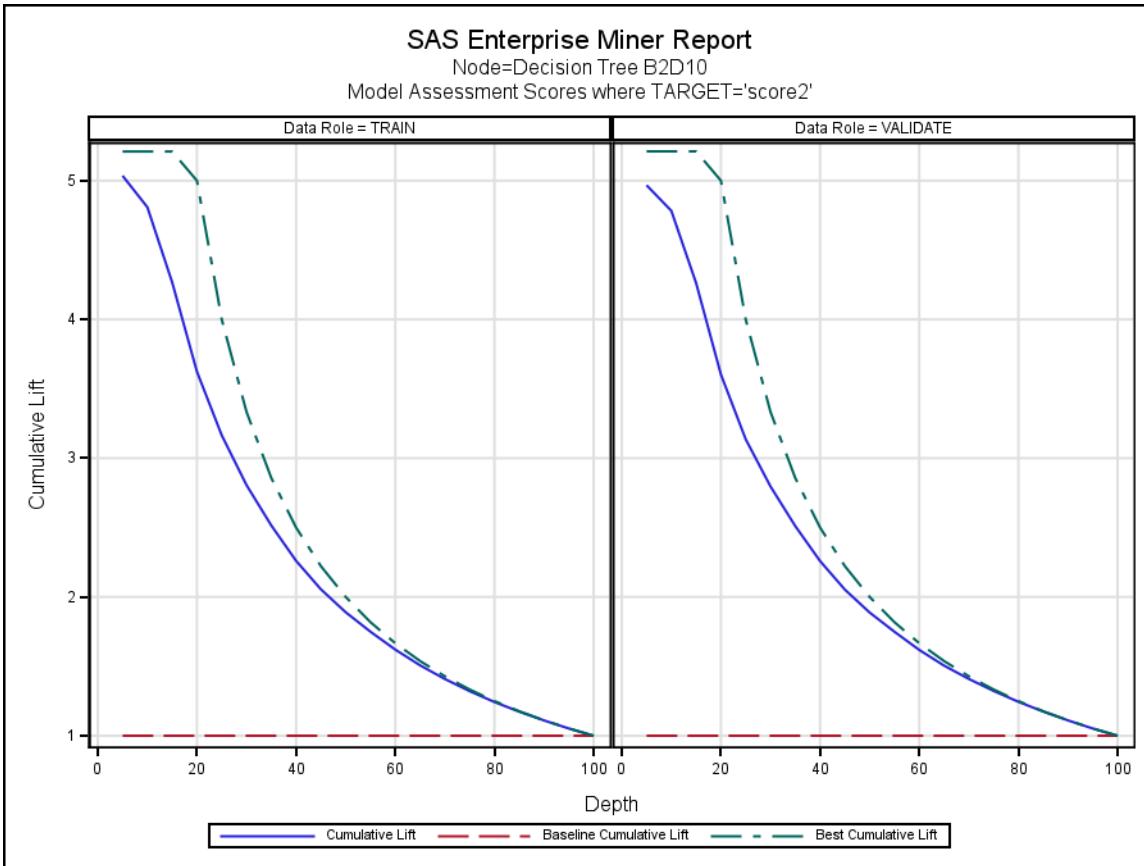
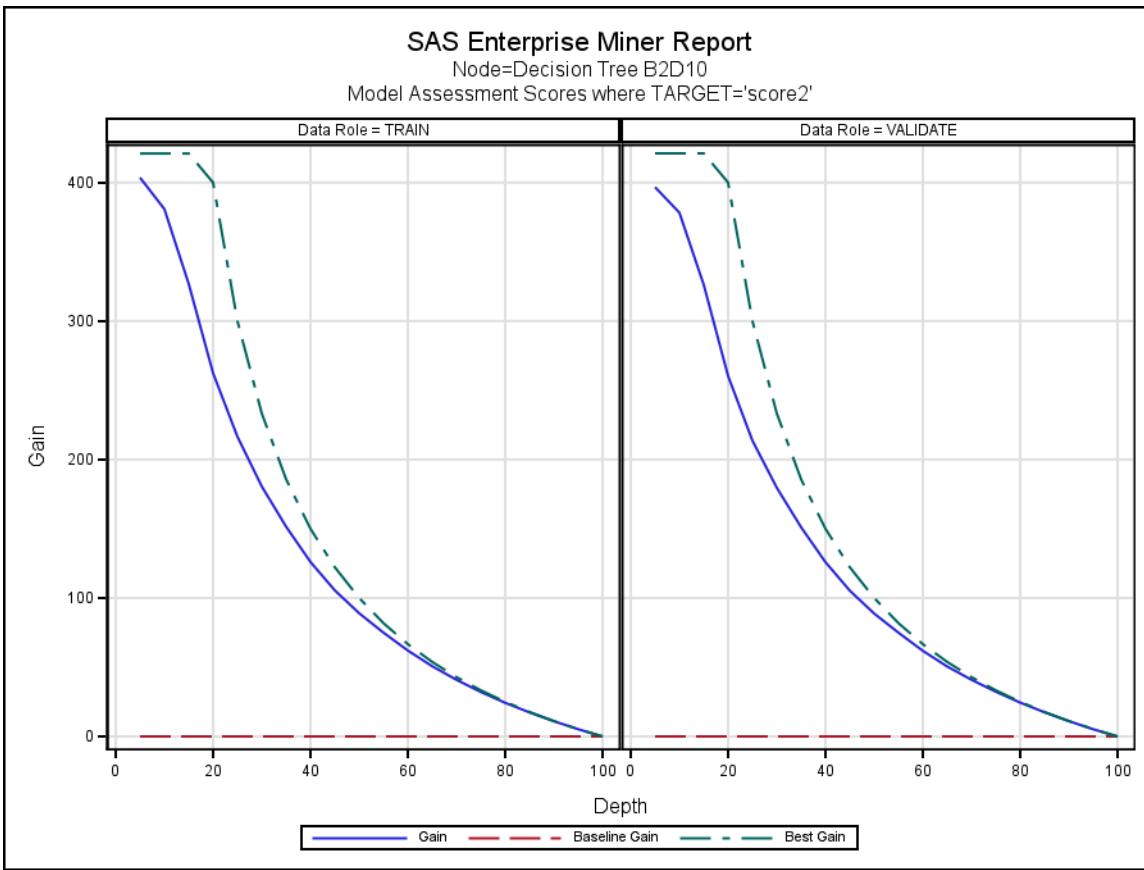


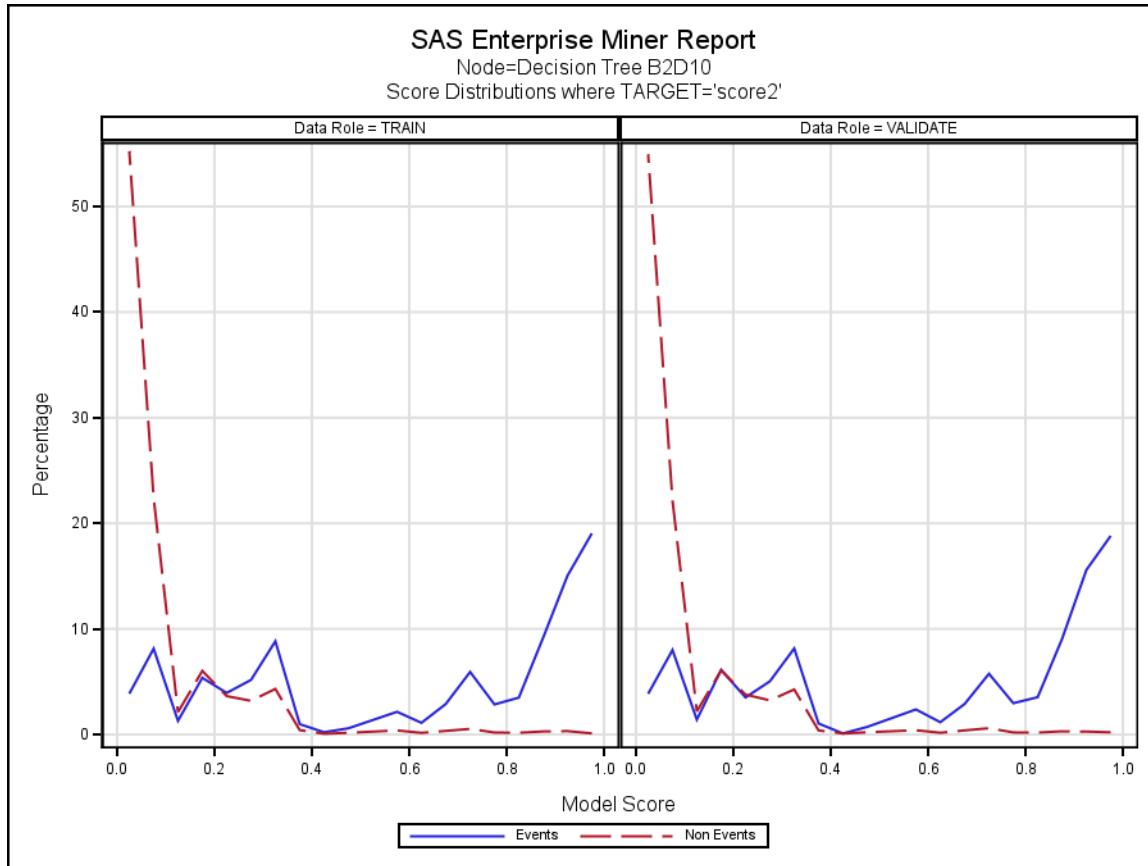
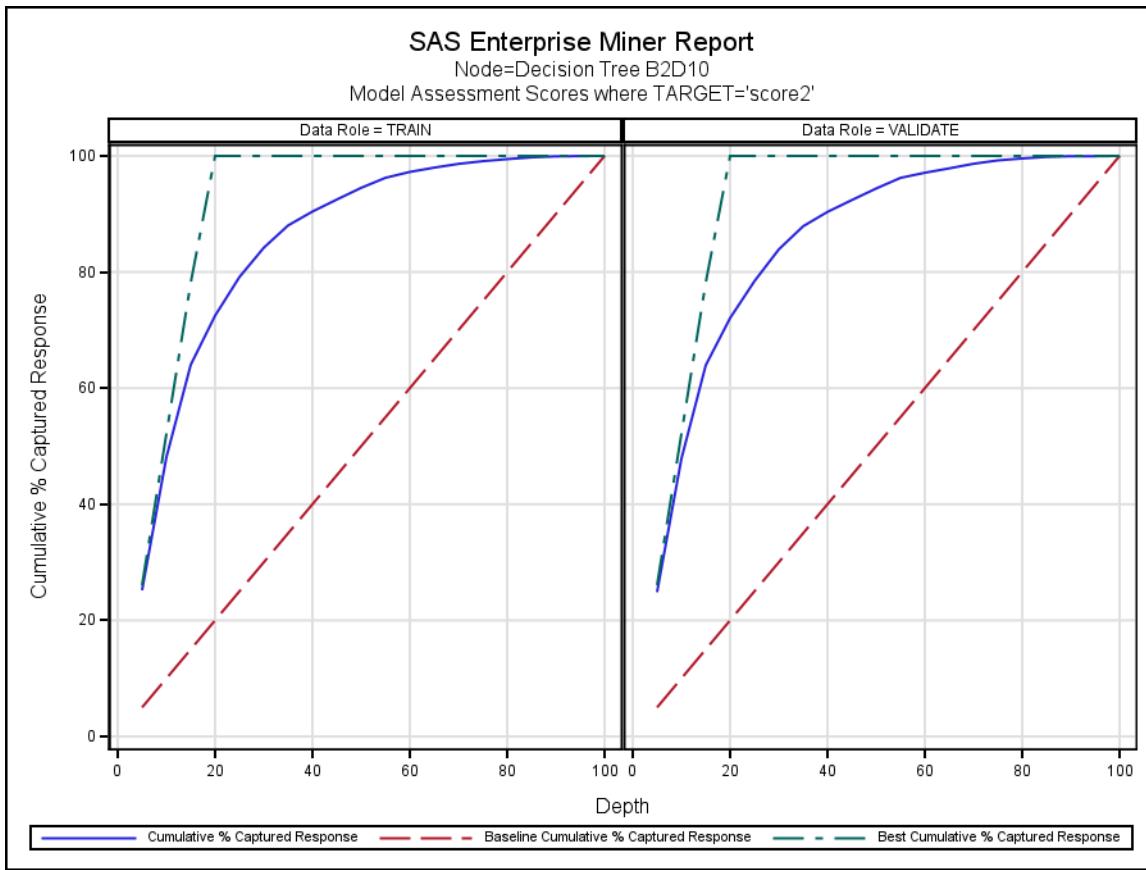
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Treemap



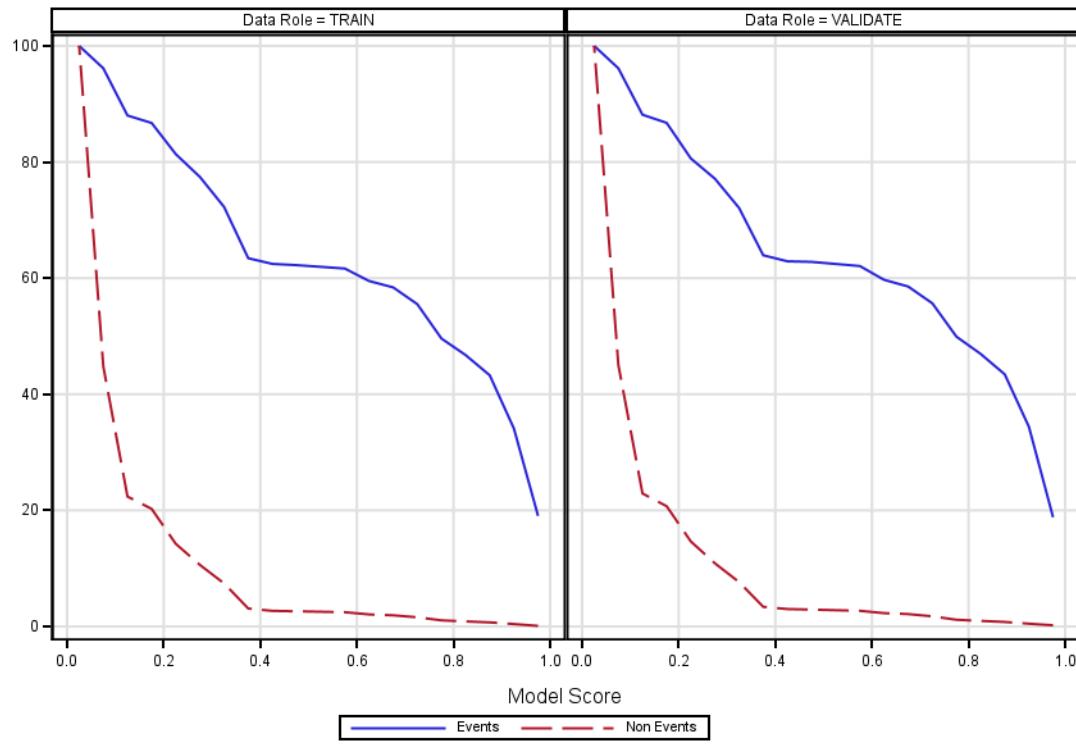
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B2D10
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D10

Score Distributions

Target Variable=score2 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	2315	19.0457	0.1016	19.046	0.102
0.90-0.95	1828	15.0391	0.3185	34.085	0.420
0.85-0.90	1115	9.1732	0.2853	43.258	0.705
0.80-0.85	424	3.4883	0.1641	46.746	0.870
0.75-0.80	346	2.8466	0.1856	49.593	1.055
0.70-0.75	720	5.9235	0.5276	55.516	1.583
0.65-0.70	351	2.8877	0.3380	58.404	1.921
0.60-0.65	134	1.1024	0.1563	59.506	2.077
0.55-0.60	261	2.1473	0.3791	61.654	2.456
0.45-0.50	71	0.5841	0.1602	62.238	2.616
0.40-0.45	26	0.2139	0.0703	62.452	2.687
0.35-0.40	119	0.9790	0.4103	63.431	3.097
0.30-0.35	1073	8.8276	4.3165	72.258	7.414
0.25-0.30	628	5.1666	3.1870	77.425	10.601
0.20-0.25	478	3.9325	3.6326	81.357	14.233
0.15-0.20	652	5.3640	6.0243	86.722	20.258
0.10-0.15	157	1.2916	2.1221	88.013	22.380
0.05-0.10	988	8.1283	22.3972	96.142	44.777
0.00-0.05	469	3.8585	55.2232	100.000	100.000

Target Variable=score2 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	762	18.8102	0.2052	18.810	0.205
0.90-0.95	631	15.5764	0.2755	34.387	0.481
0.85-0.90	366	9.0348	0.2990	43.421	0.780
0.80-0.85	143	3.5300	0.1817	46.951	0.961
0.75-0.80	120	2.9622	0.1934	49.914	1.155
0.70-0.75	233	5.7517	0.5921	55.665	1.747
0.65-0.70	117	2.8882	0.3869	58.553	2.134
0.60-0.65	47	1.1602	0.1641	59.714	2.298
0.55-0.60	96	2.3698	0.3986	62.083	2.697
0.45-0.50	29	0.7159	0.2110	62.799	2.908
0.40-0.45	4	0.0987	0.0938	62.898	3.001
0.35-0.40	42	1.0368	0.3810	63.935	3.382
0.30-0.35	330	8.1461	4.2617	72.081	7.644
0.25-0.30	204	5.0358	3.2300	77.117	10.874
0.20-0.25	142	3.5053	3.7751	80.622	14.649
0.15-0.20	248	6.1219	6.0672	86.744	20.716
0.10-0.15	57	1.4071	2.1924	88.151	22.909
0.05-0.10	324	7.9980	22.1643	96.149	45.073
0.00-0.05	156	3.8509	54.9270	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D14 Summary

Node id = Tree31
 Node label = Decision Tree B2D14
 Meta path = lds6 => Part3 => Tree31
 Notes =

Node=Decision Tree B2D14 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	14	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B2D14 Variable Summary

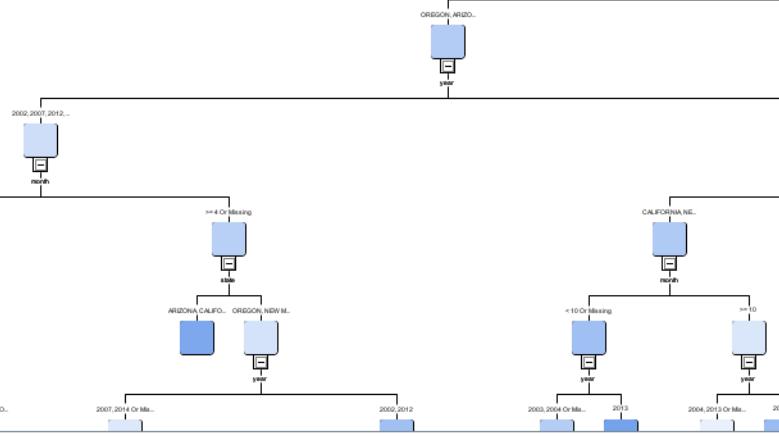
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D14 Model Fit Statistics

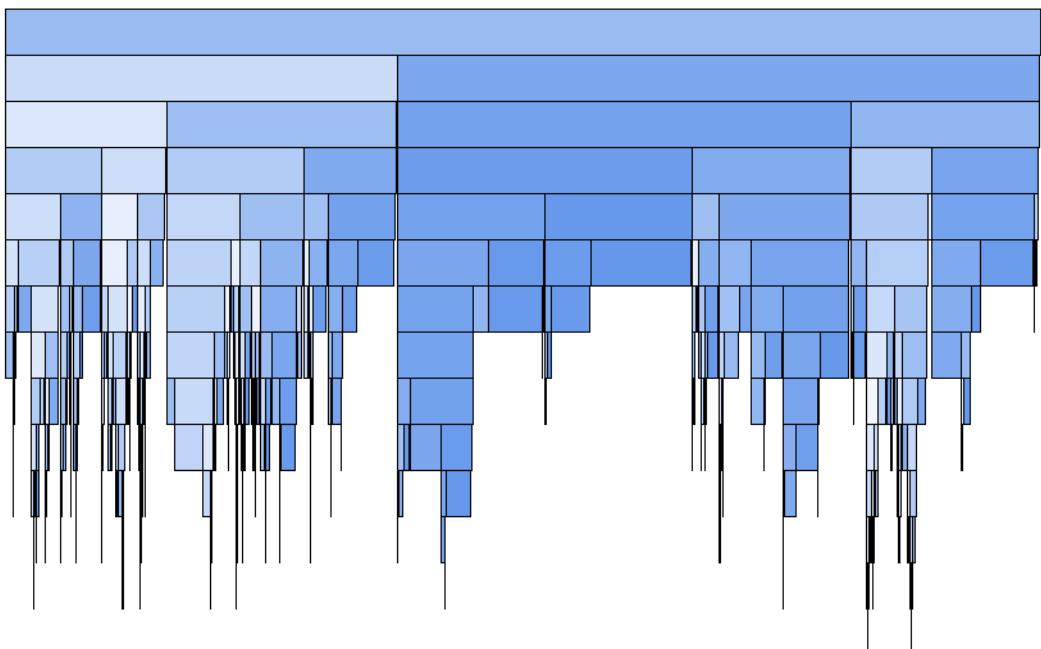
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.08	0.09	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	8458.81	2916.19	3063.27
Average Squared Error	0.07	0.07	0.07
Root Average Squared Error	0.26	0.26	0.27
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

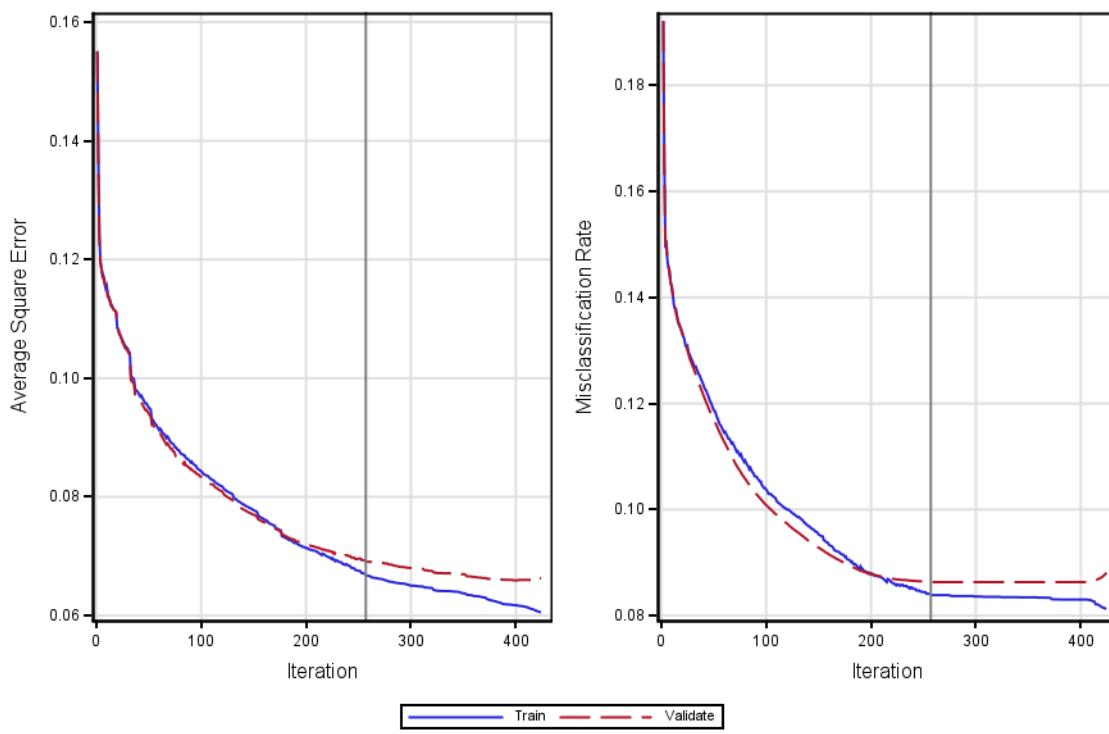
SAS Enterprise Miner Report
Node=Decision Tree B2D14
Tree Diagram

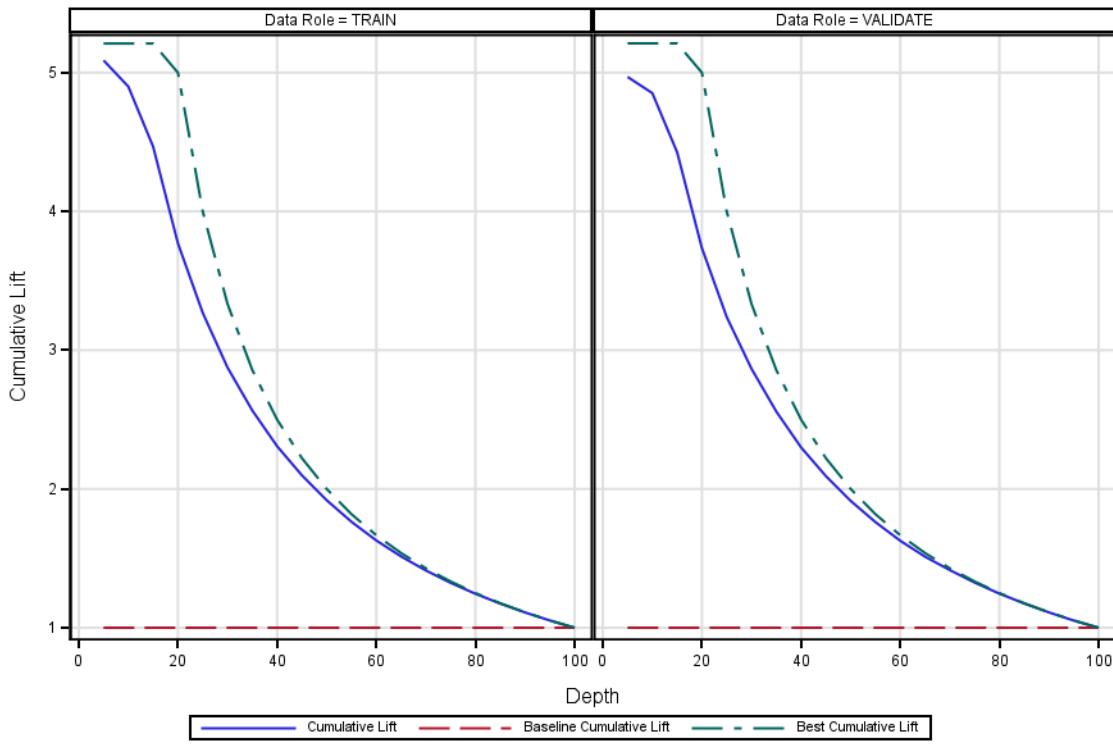
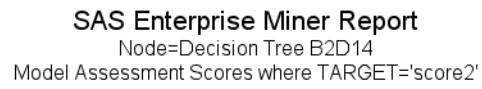
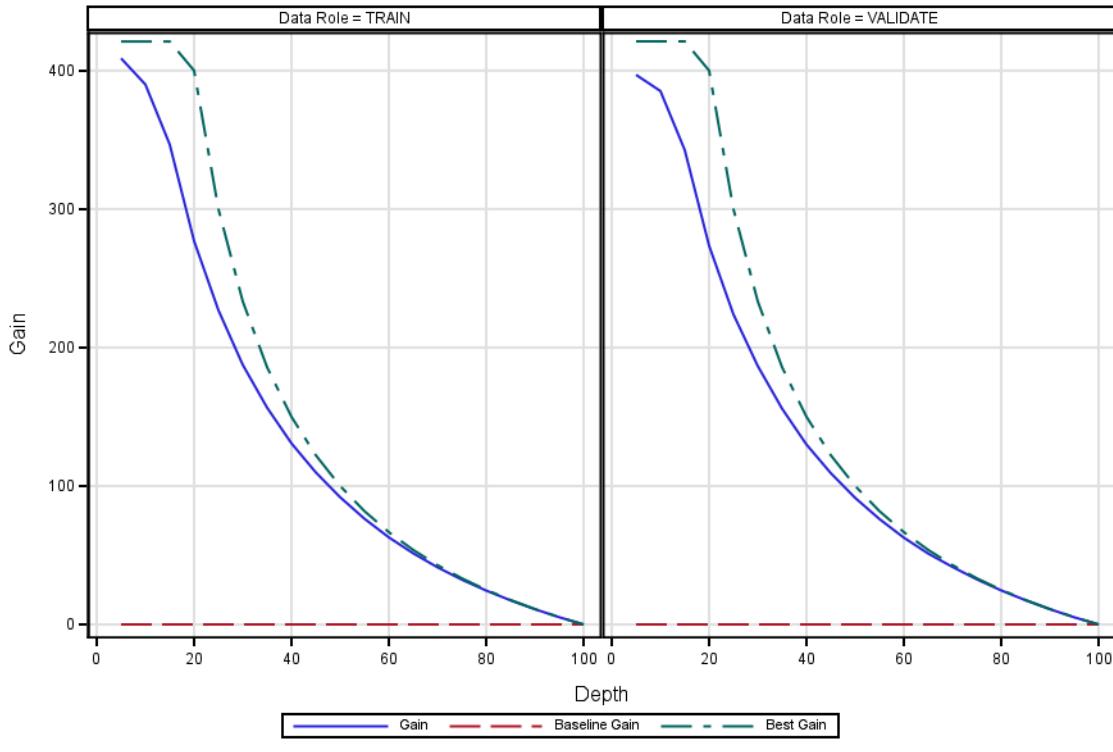
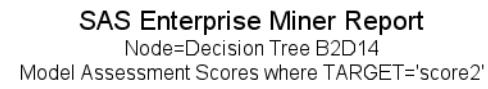


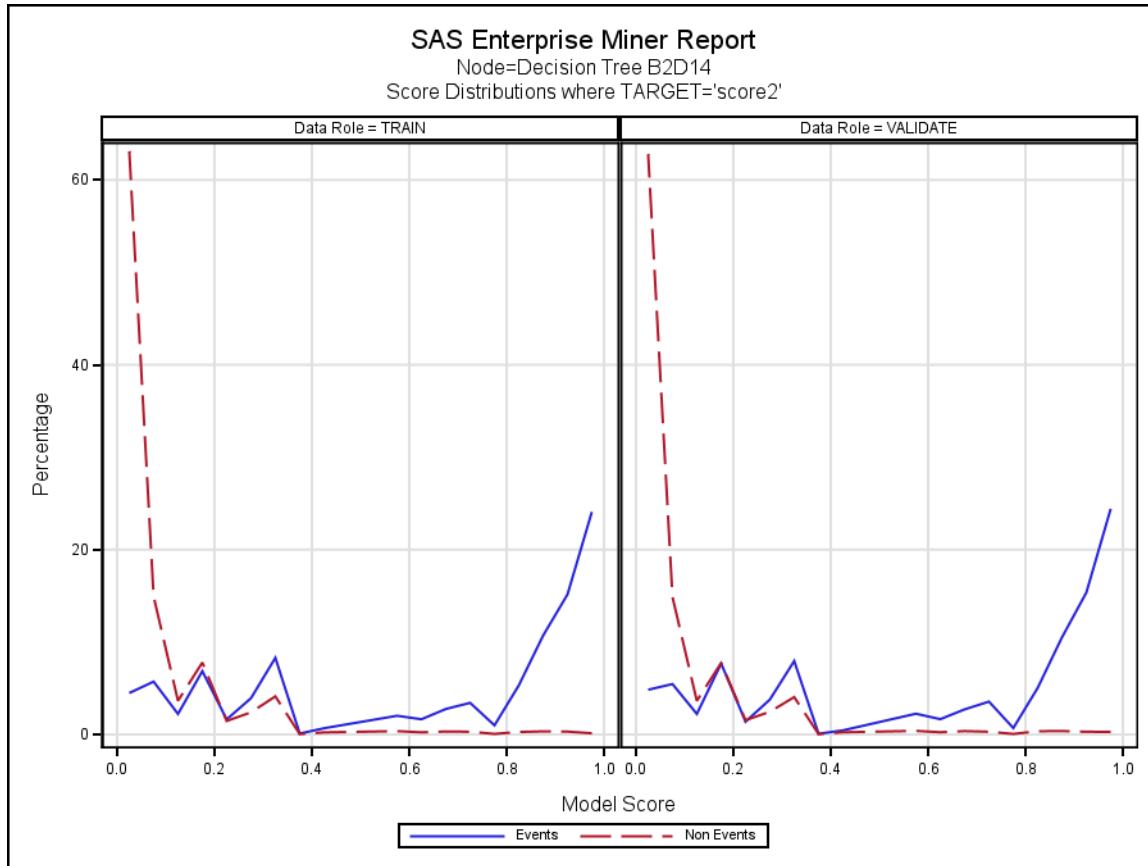
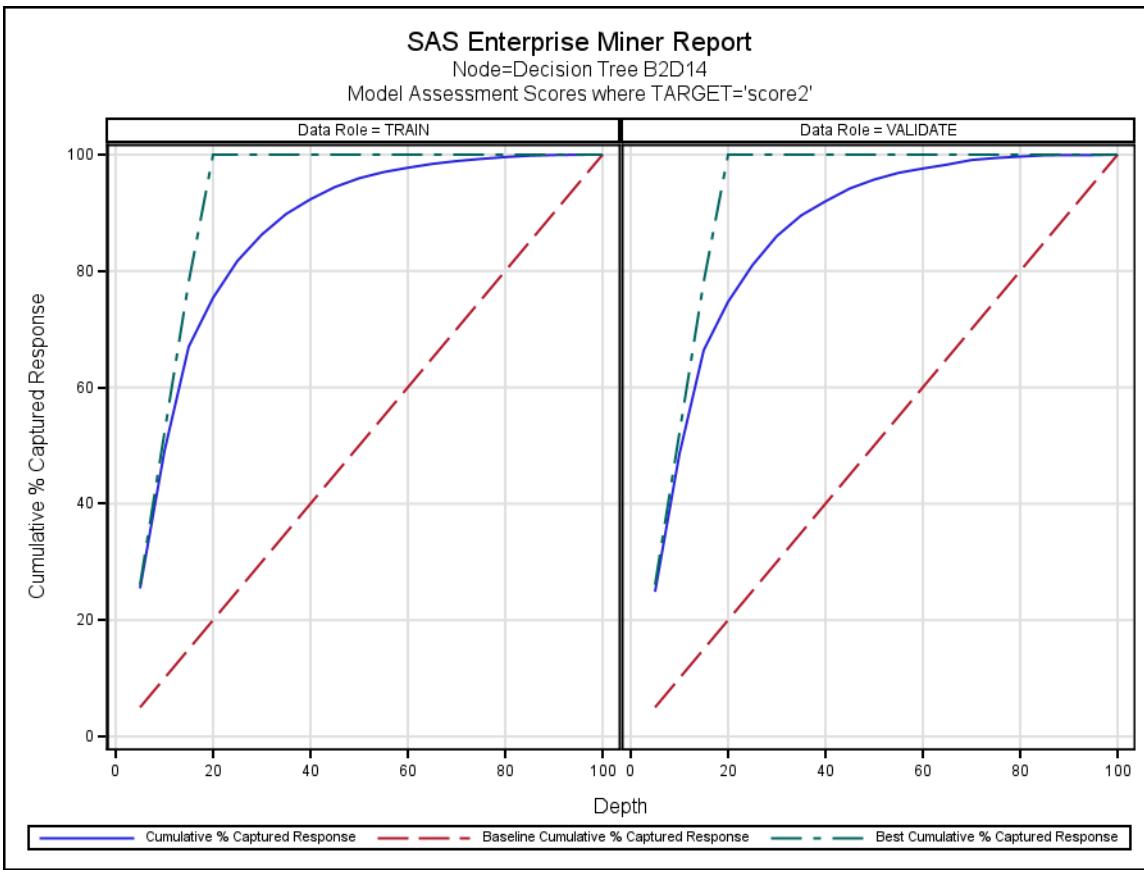
SAS Enterprise Miner Report
Node=Decision Tree B2D14
Treemap



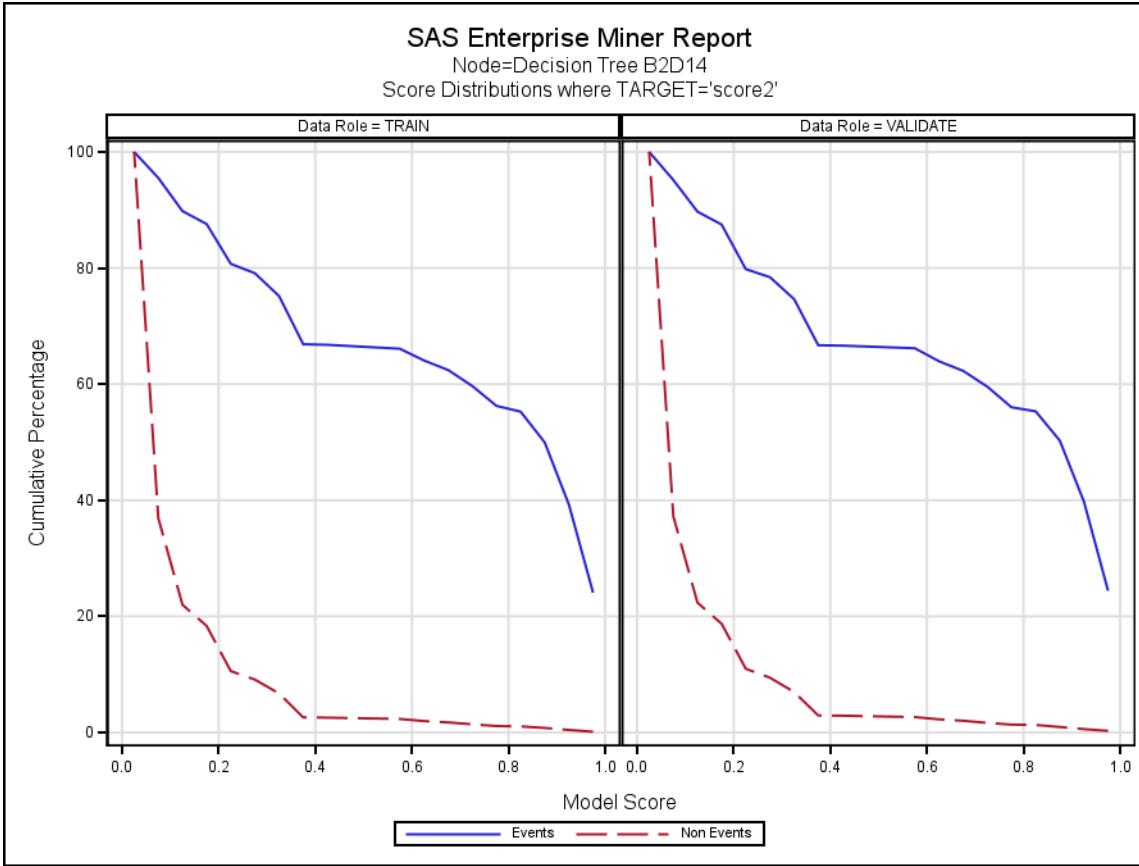
SAS Enterprise Miner Report
Node=Decision Tree B2D14
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B2D14
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D14

Score Distributions

Target Variable=score2 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	2927	24.0806	0.1270	24.081	0.127
0.90-0.95	1842	15.1543	0.3126	39.235	0.440
0.85-0.90	1302	10.7116	0.3380	49.947	0.778
0.80-0.85	646	5.3147	0.2677	55.261	1.045
0.75-0.80	120	0.9872	0.0625	56.248	1.108
0.70-0.75	416	3.4225	0.2990	59.671	1.407
0.65-0.70	335	2.7561	0.3224	62.427	1.729
0.60-0.65	200	1.6454	0.2345	64.072	1.964
0.55-0.60	246	2.0239	0.3615	66.096	2.325
0.40-0.45	82	0.6746	0.2267	66.771	2.552
0.35-0.40	12	0.0987	0.0410	66.870	2.593
0.30-0.35	1008	8.2929	4.1211	75.162	6.714
0.25-0.30	478	3.9325	2.3957	79.095	9.110
0.20-0.25	198	1.6290	1.4577	80.724	10.567
0.15-0.20	833	6.8531	7.7869	87.577	18.354
0.10-0.15	270	2.2213	3.6423	89.798	21.997
0.05-0.10	695	5.7178	14.9093	95.516	36.906
0.00-0.05	545	4.4838	63.0940	100.000	100.000

Target Variable=score2 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	989	24.4137	0.2814	24.414	0.281
0.90-0.95	622	15.3542	0.2931	39.768	0.574
0.85-0.90	426	10.5159	0.3693	50.284	0.944
0.80-0.85	204	5.0358	0.3517	55.320	1.296
0.75-0.80	28	0.6912	0.0586	56.011	1.354
0.70-0.75	144	3.5547	0.2990	59.566	1.653
0.65-0.70	110	2.7154	0.3634	62.281	2.017
0.60-0.65	67	1.6539	0.2462	63.935	2.263
0.55-0.60	91	2.2464	0.3869	66.181	2.650
0.40-0.45	18	0.4443	0.2403	66.626	2.890
0.35-0.40	3	0.0741	0.0410	66.700	2.931
0.30-0.35	322	7.9487	4.0448	74.648	6.976
0.25-0.30	153	3.7768	2.4562	78.425	9.432
0.20-0.25	56	1.3824	1.5417	79.807	10.974
0.15-0.20	311	7.6771	7.7437	87.485	18.717
0.10-0.15	90	2.2217	3.6403	89.706	22.358
0.05-0.10	221	5.4554	14.8661	95.162	37.224
0.00-0.05	196	4.8383	62.7762	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D20 Summary

Node id = Tree32
 Node label = Decision Tree B2D20
 Meta path = lds6 => Part3 => Tree32
 Notes =

Node=Decision Tree B2D20 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	20	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B2D20 Variable Summary

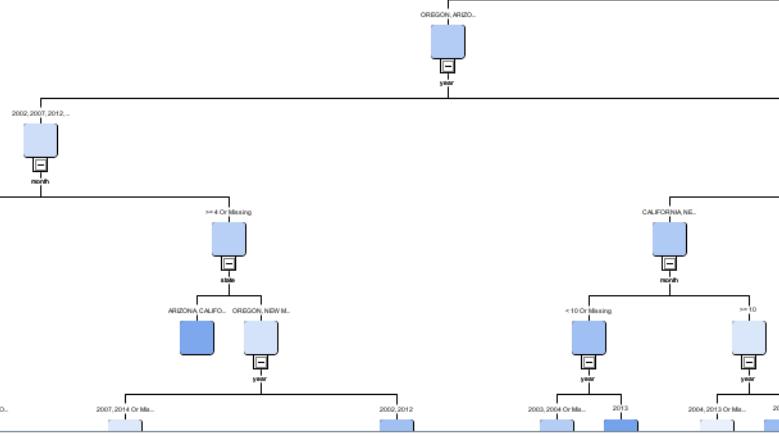
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D20 Model Fit Statistics

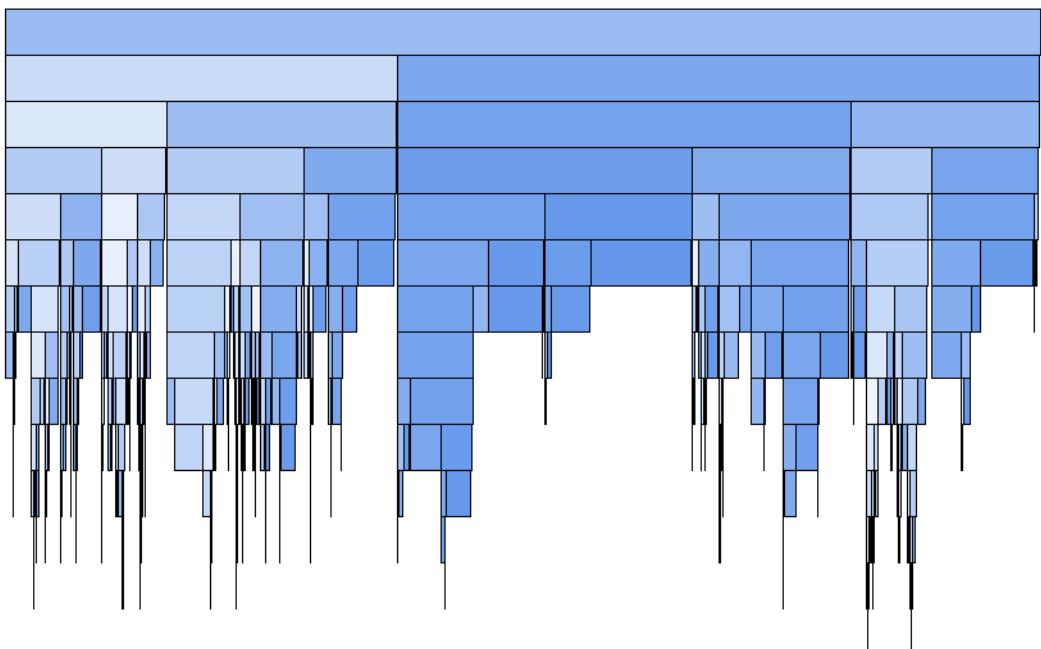
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.08	0.09	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	8458.81	2916.19	3063.27
Average Squared Error	0.07	0.07	0.07
Root Average Squared Error	0.26	0.26	0.27
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

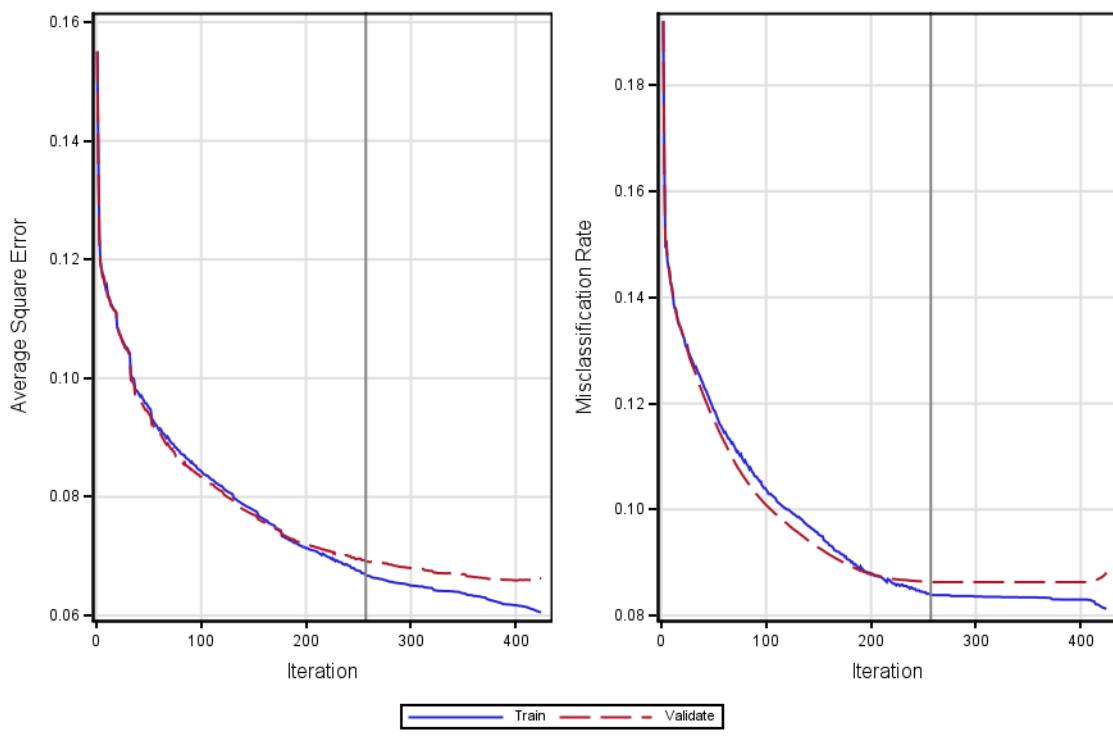
SAS Enterprise Miner Report
Node=Decision Tree B2D20
Tree Diagram

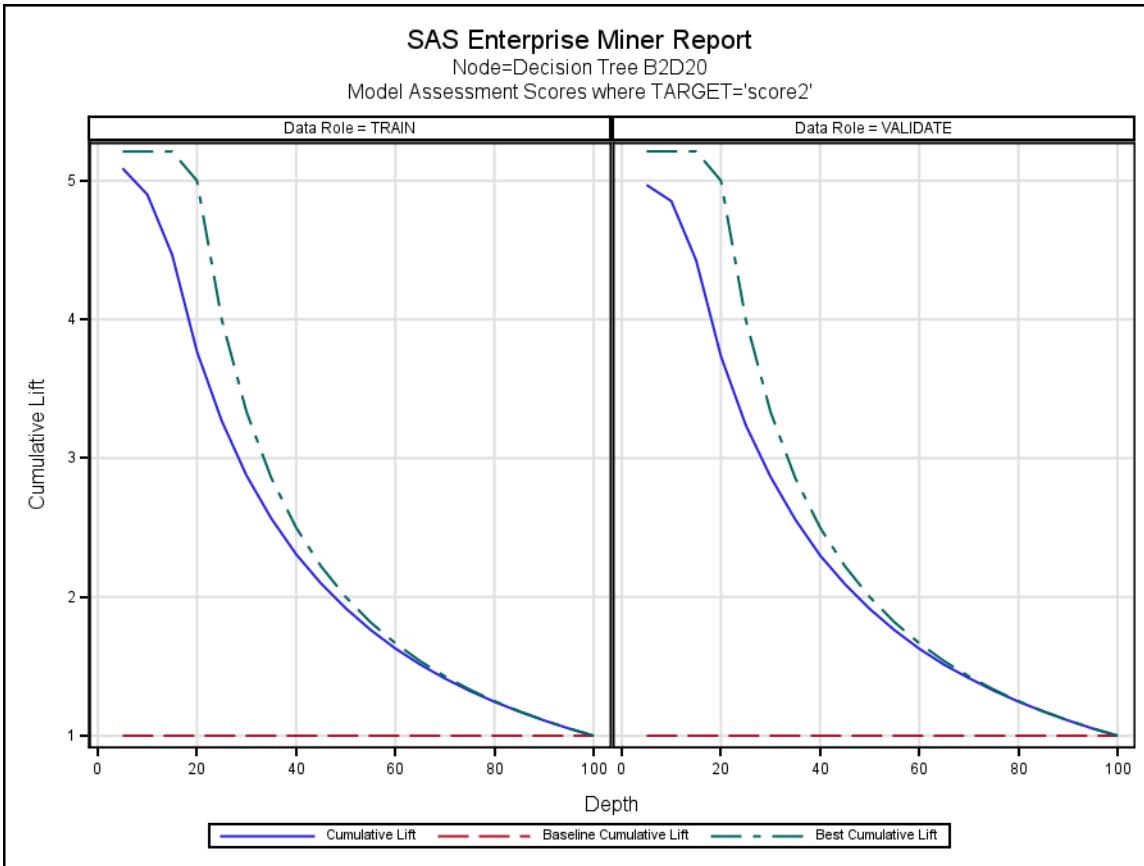
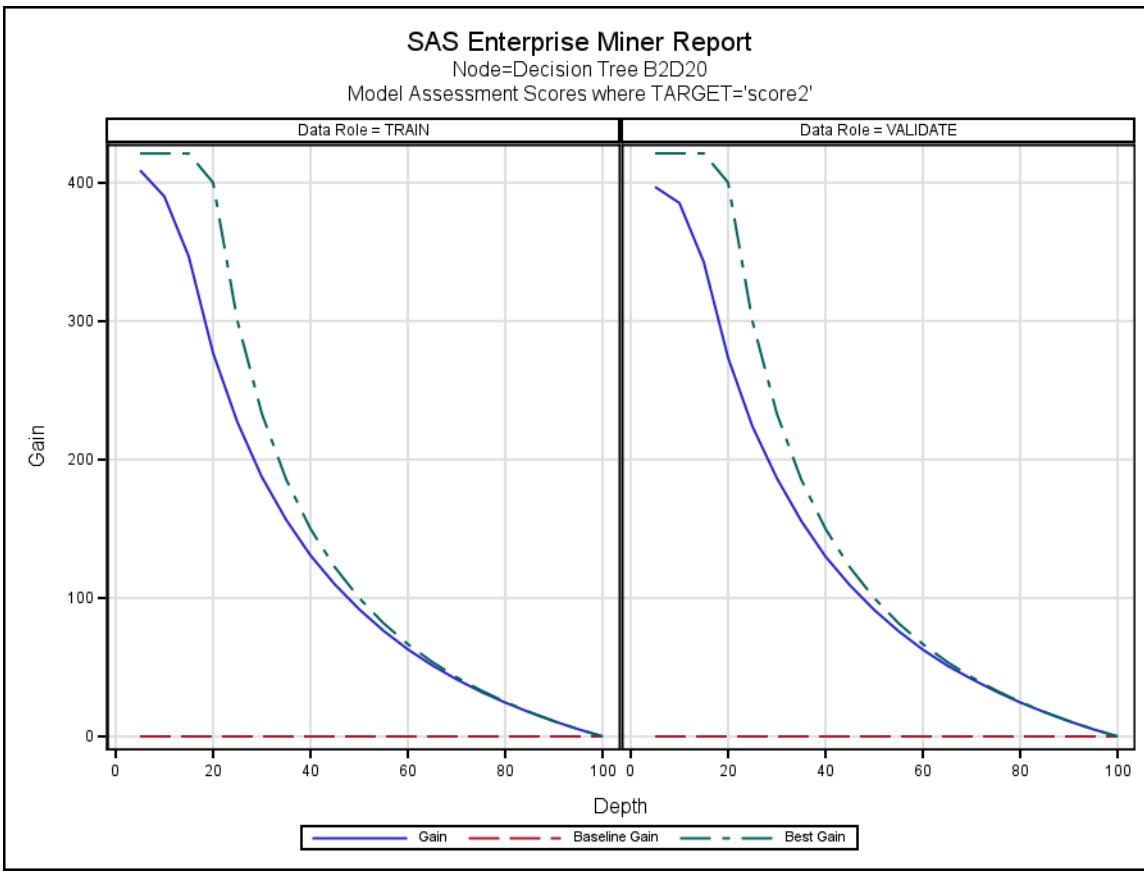


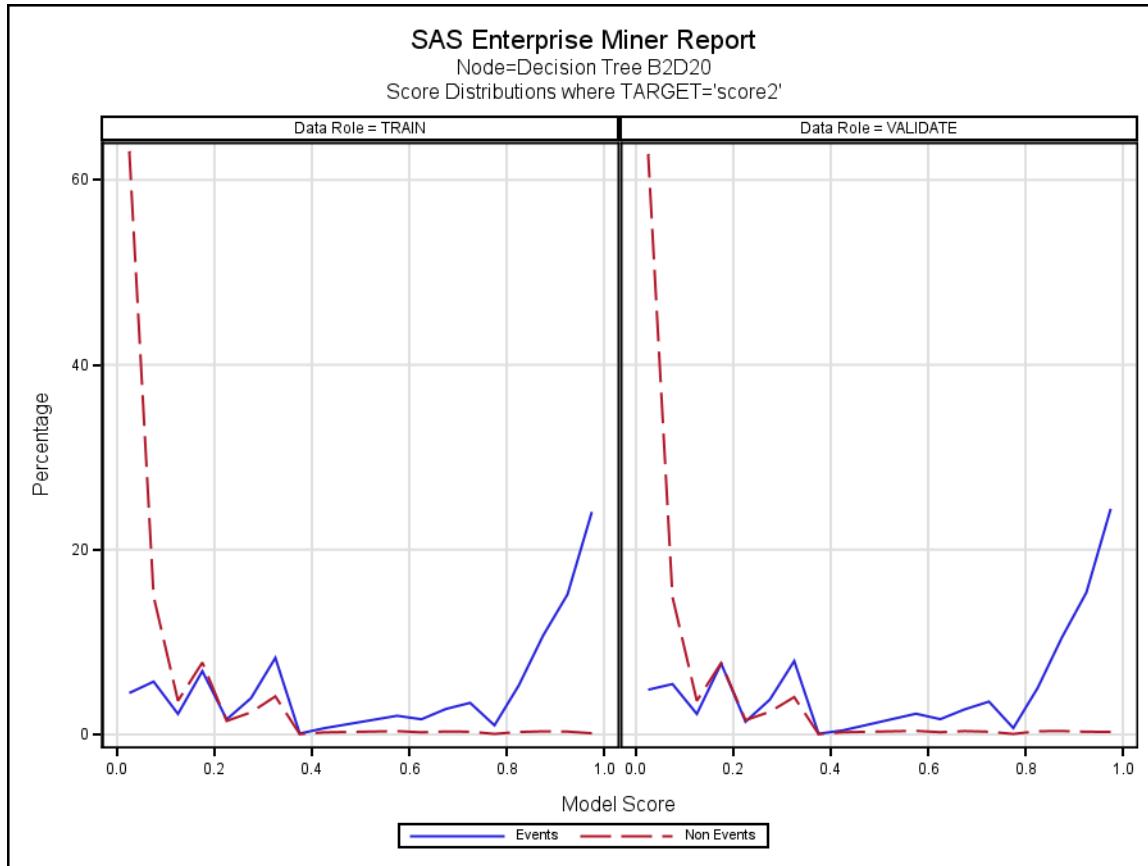
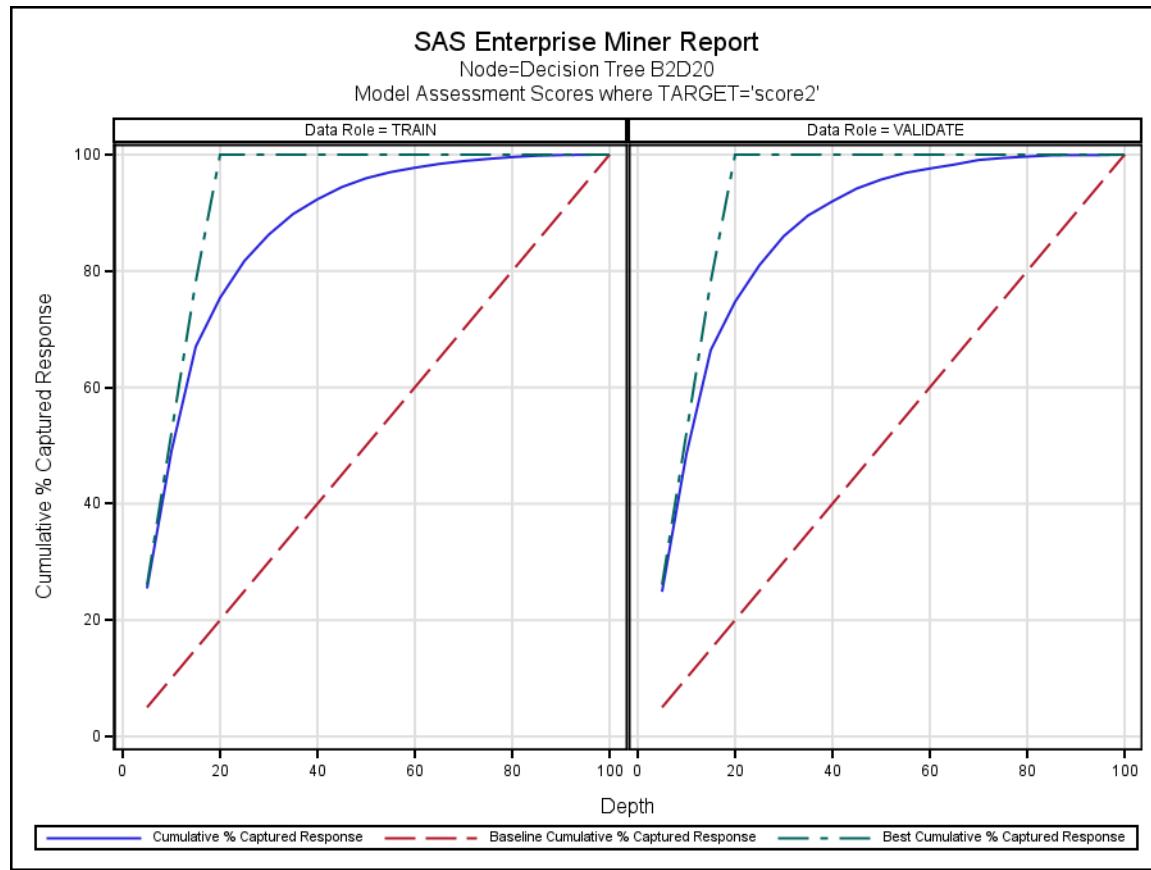
SAS Enterprise Miner Report
Node=Decision Tree B2D20
Treemap



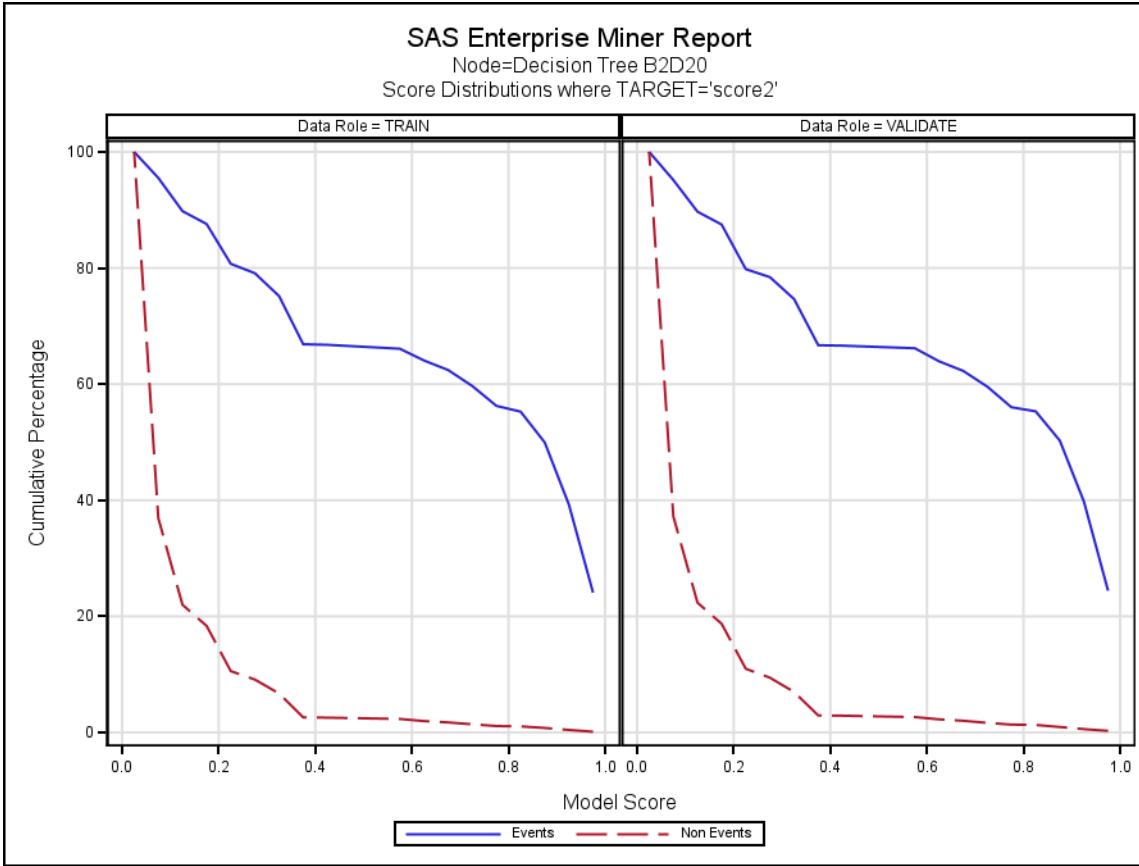
SAS Enterprise Miner Report
Node=Decision Tree B2D20
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B2D20
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D20

Score Distributions

Target Variable=score2 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	2927	24.0806	0.1270	24.081	0.127
0.90-0.95	1842	15.1543	0.3126	39.235	0.440
0.85-0.90	1302	10.7116	0.3380	49.947	0.778
0.80-0.85	646	5.3147	0.2677	55.261	1.045
0.75-0.80	120	0.9872	0.0625	56.248	1.108
0.70-0.75	416	3.4225	0.2990	59.671	1.407
0.65-0.70	335	2.7561	0.3224	62.427	1.729
0.60-0.65	200	1.6454	0.2345	64.072	1.964
0.55-0.60	246	2.0239	0.3615	66.096	2.325
0.40-0.45	82	0.6746	0.2267	66.771	2.552
0.35-0.40	12	0.0987	0.0410	66.870	2.593
0.30-0.35	1008	8.2929	4.1211	75.162	6.714
0.25-0.30	478	3.9325	2.3957	79.095	9.110
0.20-0.25	198	1.6290	1.4577	80.724	10.567
0.15-0.20	833	6.8531	7.7869	87.577	18.354
0.10-0.15	270	2.2213	3.6423	89.798	21.997
0.05-0.10	695	5.7178	14.9093	95.516	36.906
0.00-0.05	545	4.4838	63.0940	100.000	100.000

Target Variable=score2 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	989	24.4137	0.2814	24.414	0.281
0.90-0.95	622	15.3542	0.2931	39.768	0.574
0.85-0.90	426	10.5159	0.3693	50.284	0.944
0.80-0.85	204	5.0358	0.3517	55.320	1.296
0.75-0.80	28	0.6912	0.0586	56.011	1.354
0.70-0.75	144	3.5547	0.2990	59.566	1.653
0.65-0.70	110	2.7154	0.3634	62.281	2.017
0.60-0.65	67	1.6539	0.2462	63.935	2.263
0.55-0.60	91	2.2464	0.3869	66.181	2.650
0.40-0.45	18	0.4443	0.2403	66.626	2.890
0.35-0.40	3	0.0741	0.0410	66.700	2.931
0.30-0.35	322	7.9487	4.0448	74.648	6.976
0.25-0.30	153	3.7768	2.4562	78.425	9.432
0.20-0.25	56	1.3824	1.5417	79.807	10.974
0.15-0.20	311	7.6771	7.7437	87.485	18.717
0.10-0.15	90	2.2217	3.6403	89.706	22.358
0.05-0.10	221	5.4554	14.8661	95.162	37.224
0.00-0.05	196	4.8383	62.7762	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D8 Summary

Node id = Tree16
 Node label = Decision Tree B3D8
 Meta path = lds6 => Part3 => Tree16
 Notes =

Node=Decision Tree B3D8 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	8	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B3D8 Variable Summary

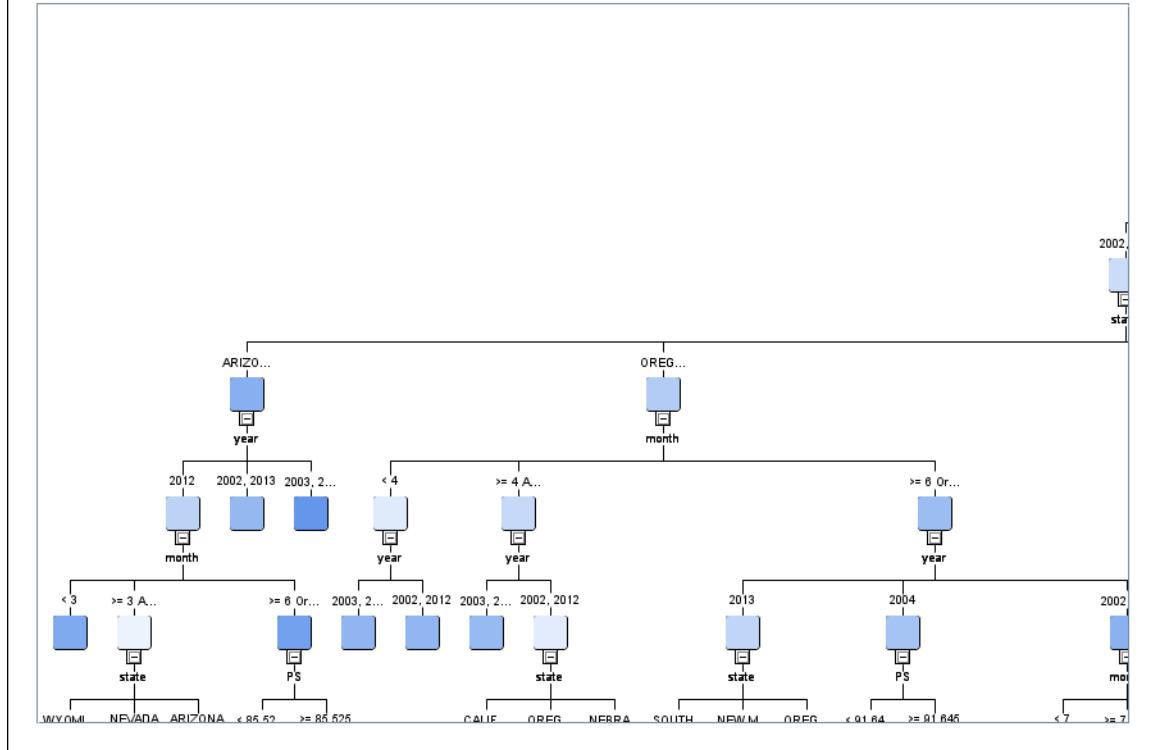
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D8 Model Fit Statistics

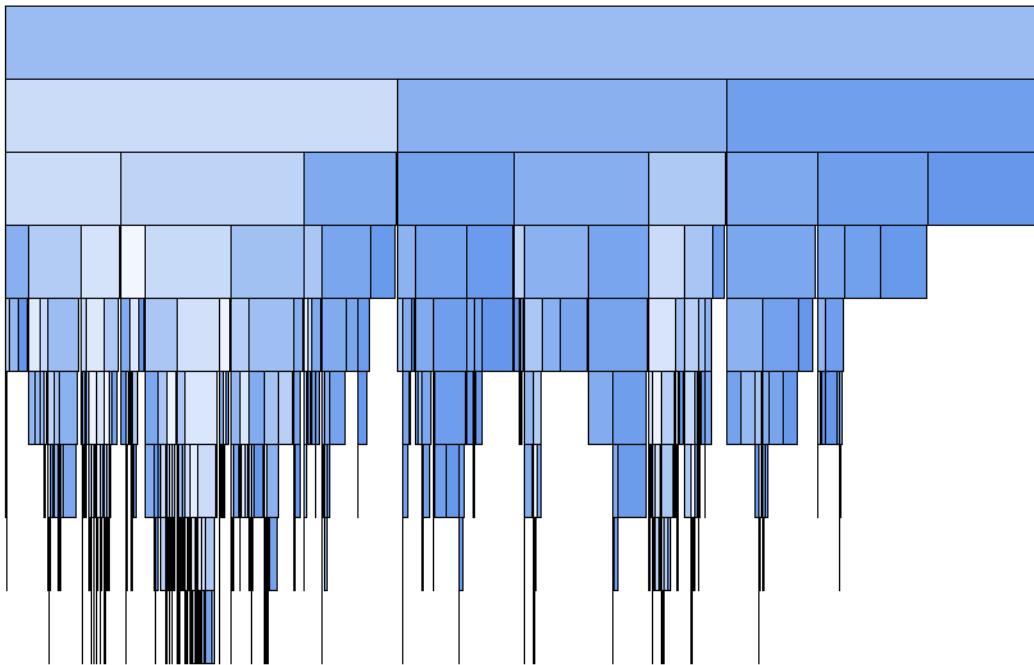
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.08	0.08	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	8003.67	2778.43	2937.62
Average Squared Error	0.06	0.07	0.07
Root Average Squared Error	0.25	0.26	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

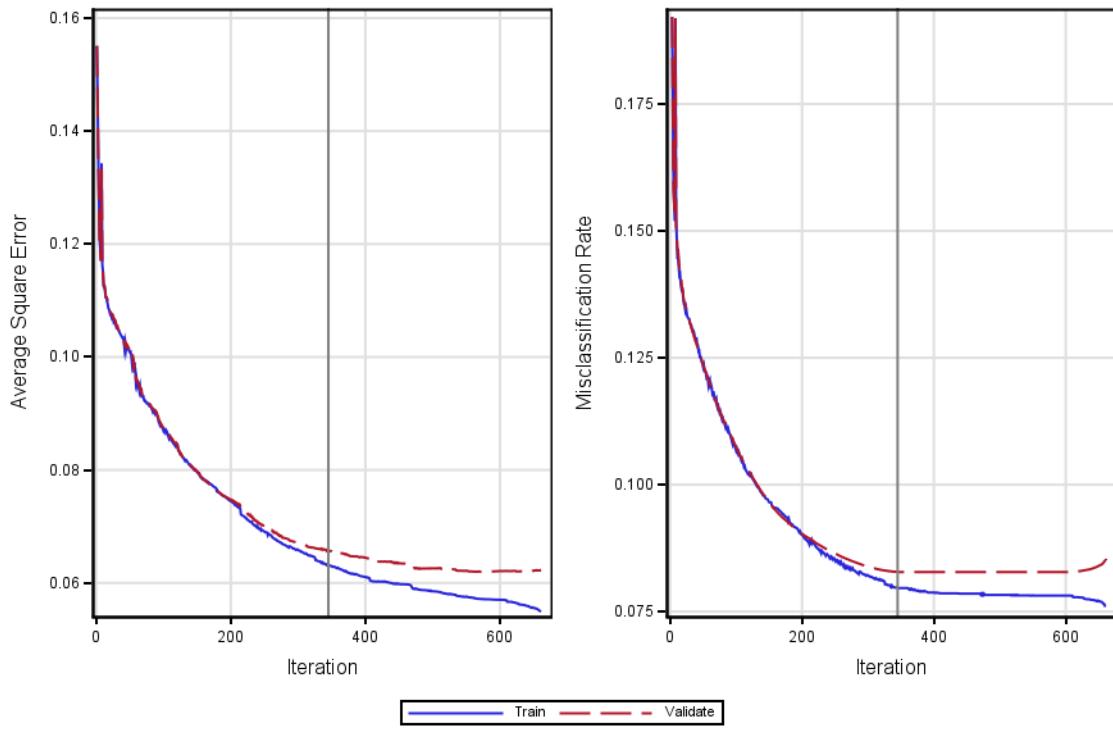
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Tree Diagram

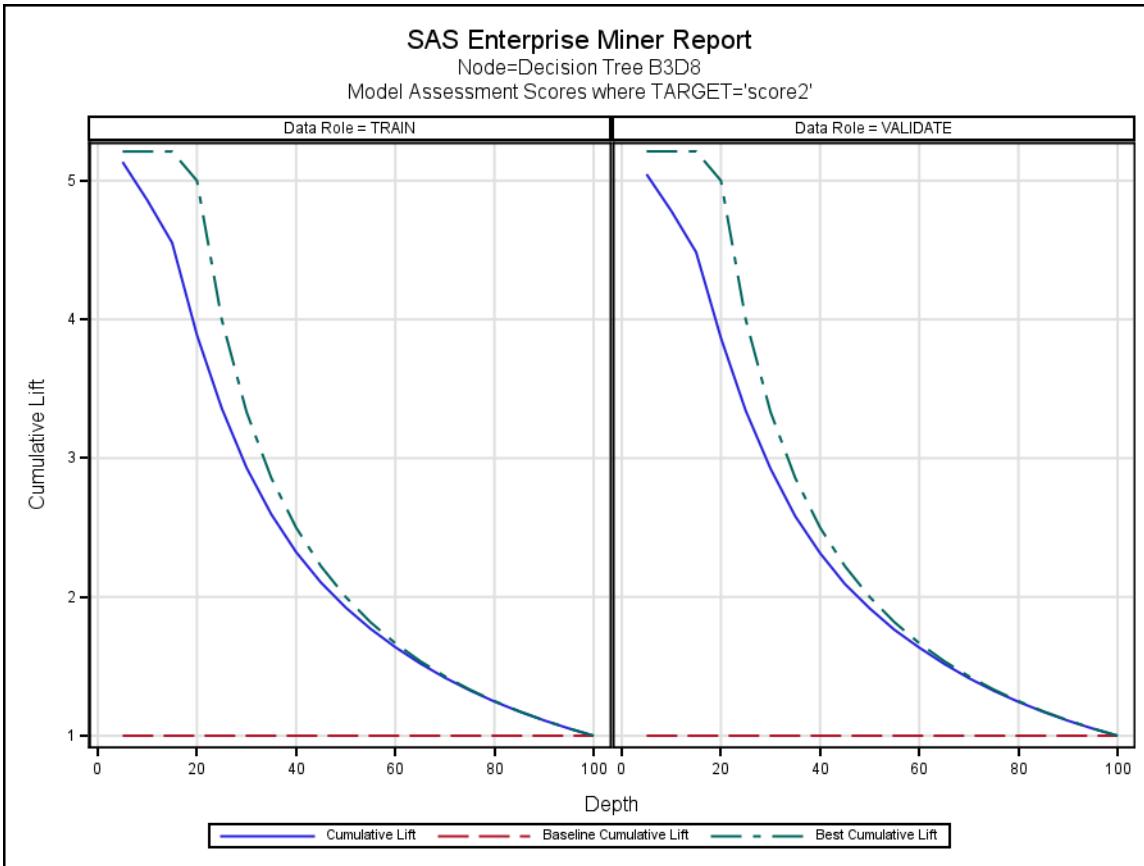
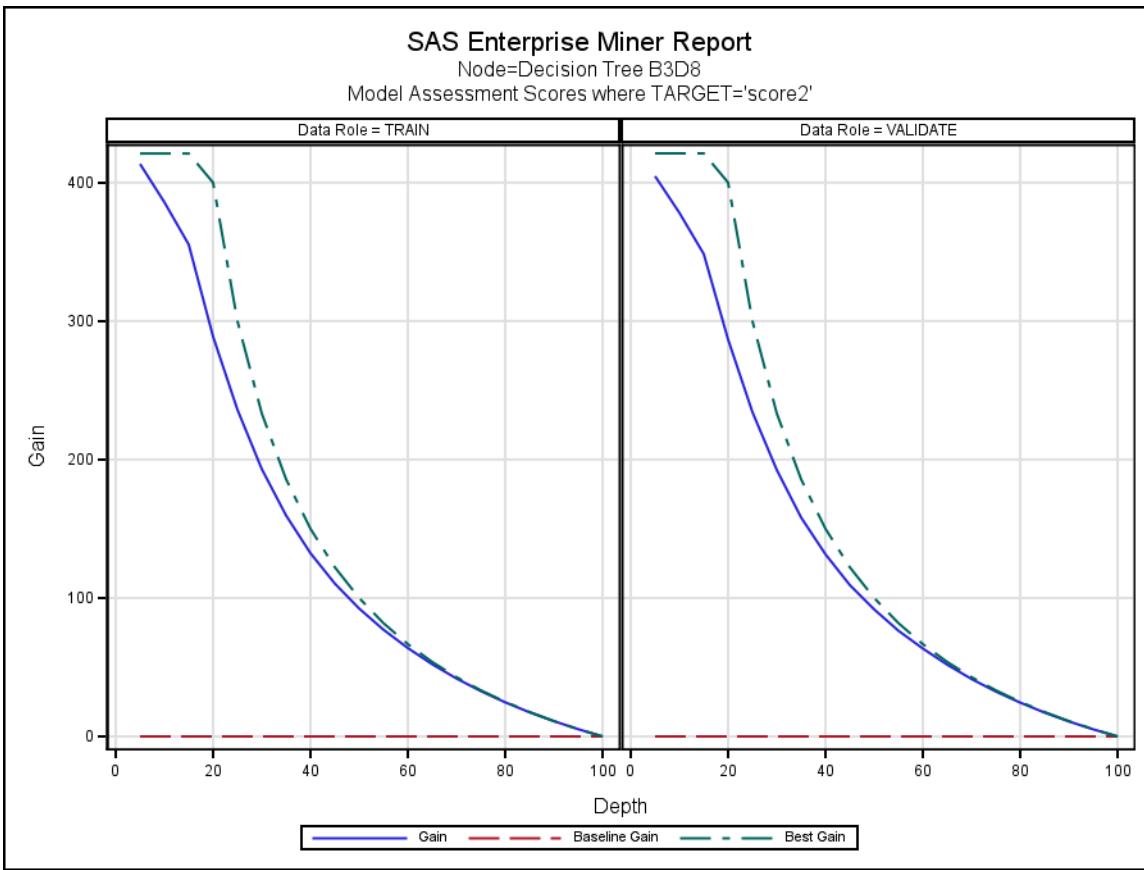


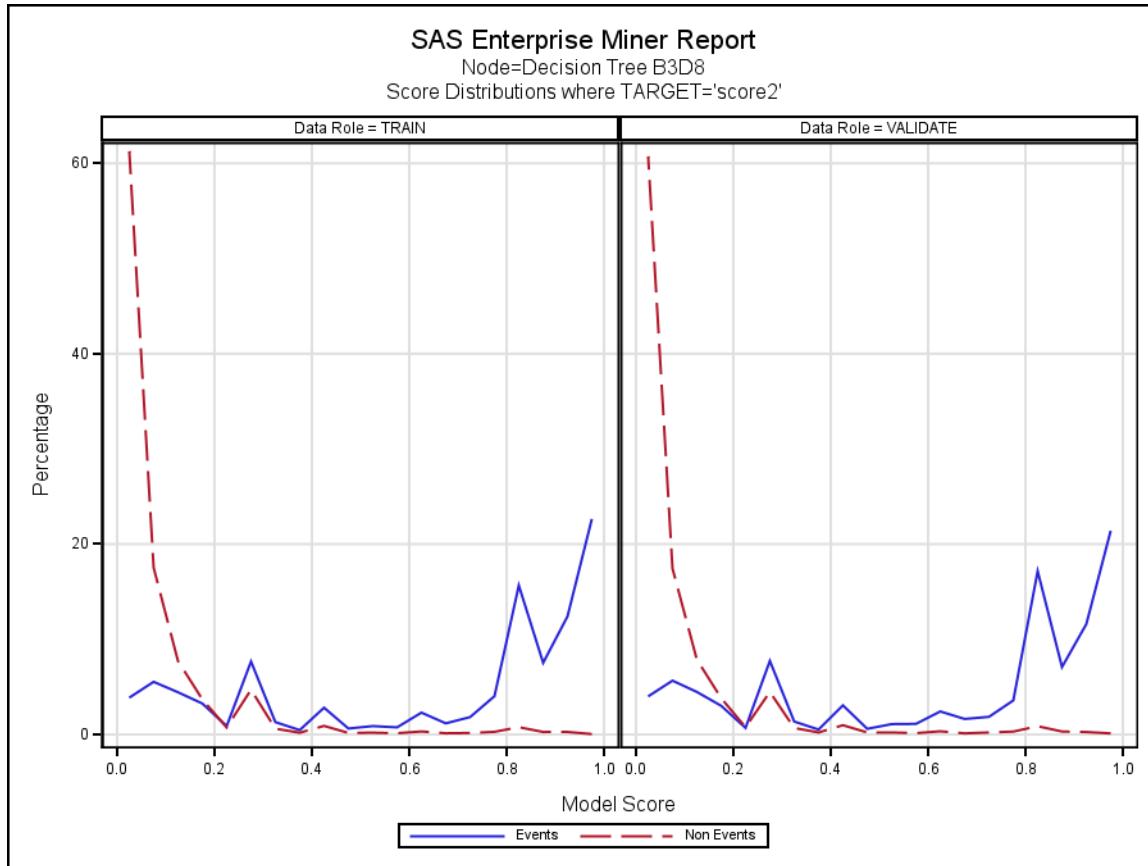
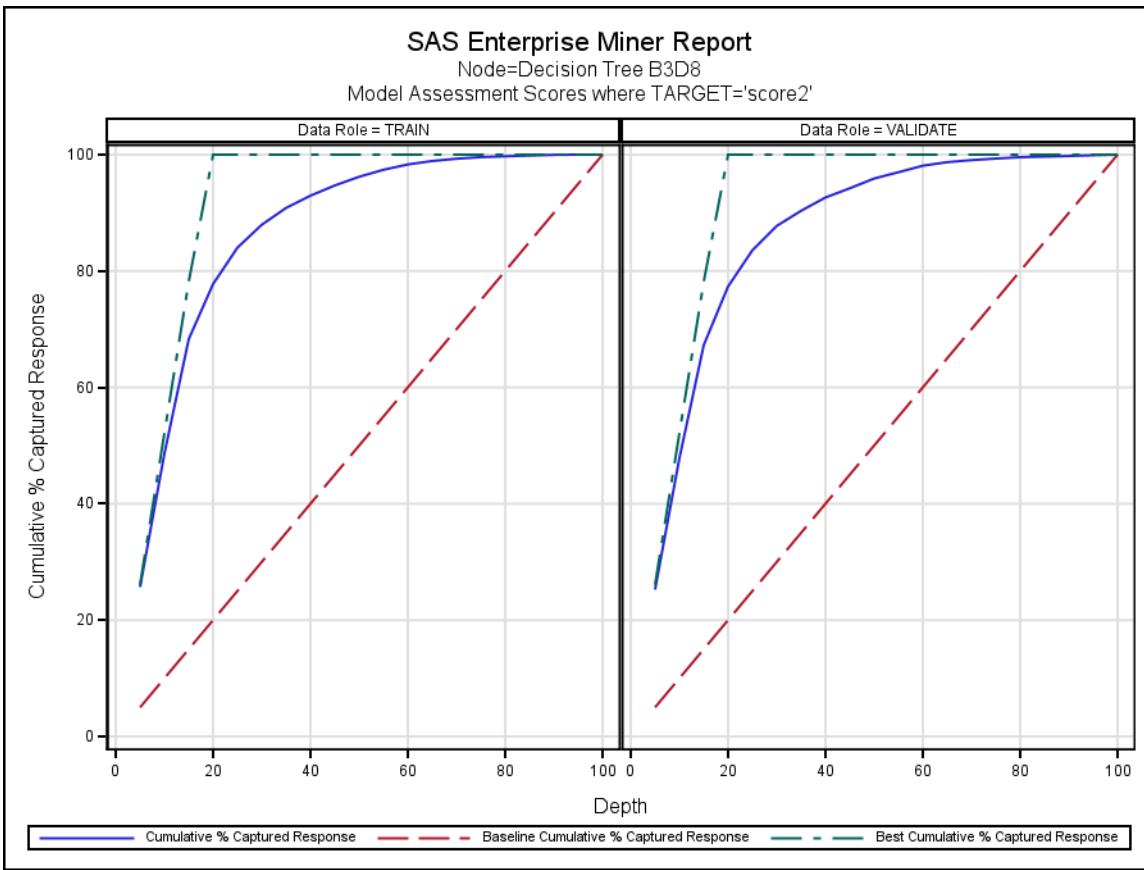
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Treemap



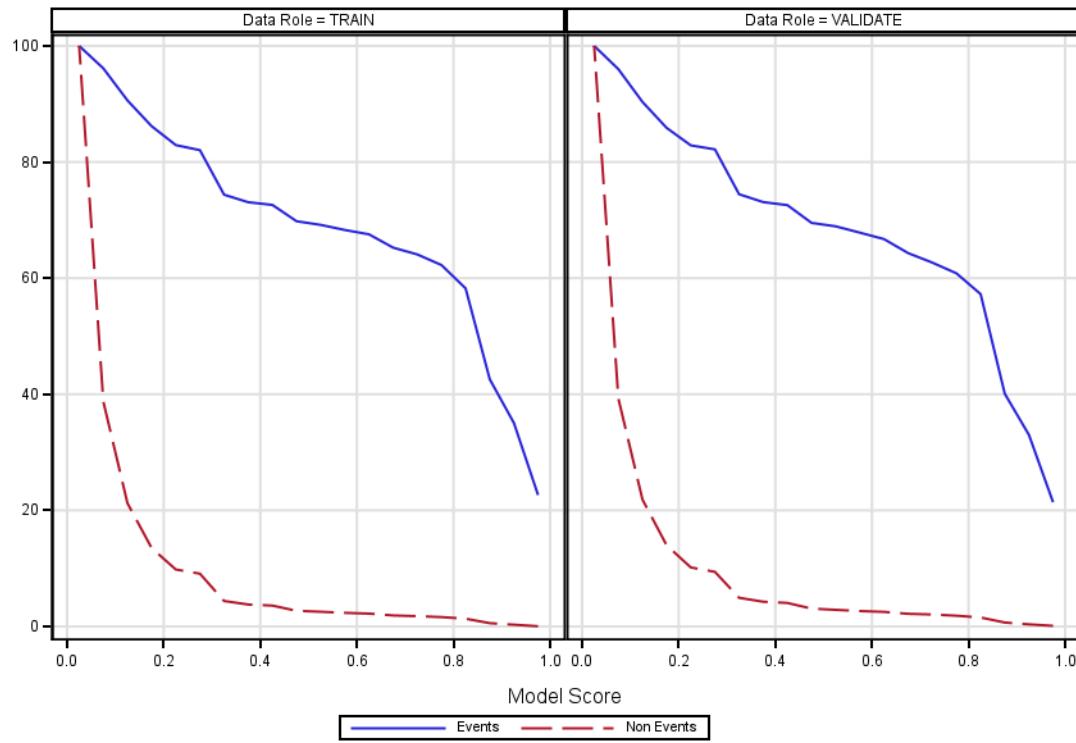
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B3D8
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D8
Score Distributions

Target Variable=score2 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	2752	22.6409	0.0430	22.641	0.043
0.90-0.95	1508	12.4064	0.2657	35.047	0.309
0.85-0.90	915	7.5278	0.2638	42.575	0.573
0.80-0.85	1903	15.6561	0.7660	58.231	1.339
0.75-0.80	489	4.0230	0.2775	62.254	1.616
0.70-0.75	222	1.8264	0.1563	64.081	1.772
0.65-0.70	142	1.1682	0.1270	65.249	1.899
0.60-0.65	279	2.2954	0.3166	67.544	2.216
0.55-0.60	91	0.7487	0.1309	68.293	2.347
0.50-0.55	107	0.8803	0.1876	69.173	2.534
0.45-0.50	76	0.6253	0.1622	69.798	2.697
0.40-0.45	342	2.8137	0.9008	72.612	3.597
0.35-0.40	56	0.4607	0.1837	73.073	3.781
0.30-0.35	158	1.2999	0.6077	74.373	4.389
0.25-0.30	932	7.6676	4.7014	82.040	9.090
0.20-0.25	107	0.8803	0.7269	82.921	9.817
0.15-0.20	395	3.2497	3.6912	86.170	13.508
0.10-0.15	539	4.4344	7.7165	90.605	21.225
0.05-0.10	672	5.5286	17.5180	96.133	38.743
0.00-0.05	470	3.8667	61.2572	100.000	100.000

Target Variable=score2 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	867	21.4021	0.1114	21.402	0.111
0.90-0.95	470	11.6021	0.2579	33.004	0.369
0.85-0.90	287	7.0847	0.3107	40.089	0.680
0.80-0.85	695	17.1563	0.8676	57.245	1.548
0.75-0.80	145	3.5794	0.3048	60.824	1.852
0.70-0.75	75	1.8514	0.2110	62.676	2.063
0.65-0.70	66	1.6292	0.1172	64.305	2.181
0.60-0.65	98	2.4192	0.3341	66.724	2.515
0.55-0.60	45	1.1108	0.1407	67.835	2.655
0.50-0.55	44	1.0862	0.2110	68.921	2.867
0.45-0.50	24	0.5924	0.2110	69.514	3.078
0.40-0.45	124	3.0610	0.9731	72.575	4.051
0.35-0.40	21	0.5184	0.2110	73.093	4.262
0.30-0.35	55	1.3577	0.6800	74.451	4.942
0.25-0.30	313	7.7265	4.4669	82.177	9.409
0.20-0.25	28	0.6912	0.7621	82.868	10.171
0.15-0.20	122	3.0116	3.8103	85.880	13.981
0.10-0.15	181	4.4680	7.8727	90.348	21.854
0.05-0.10	229	5.6529	17.4395	96.001	39.293
0.00-0.05	162	3.9990	60.7070	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D12 Summary

Node id = Tree33
 Node label = Decision Tree B3D12
 Meta path = lds6 => Part3 => Tree33
 Notes =

Node=Decision Tree B3D12 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	12	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B3D12 Variable Summary

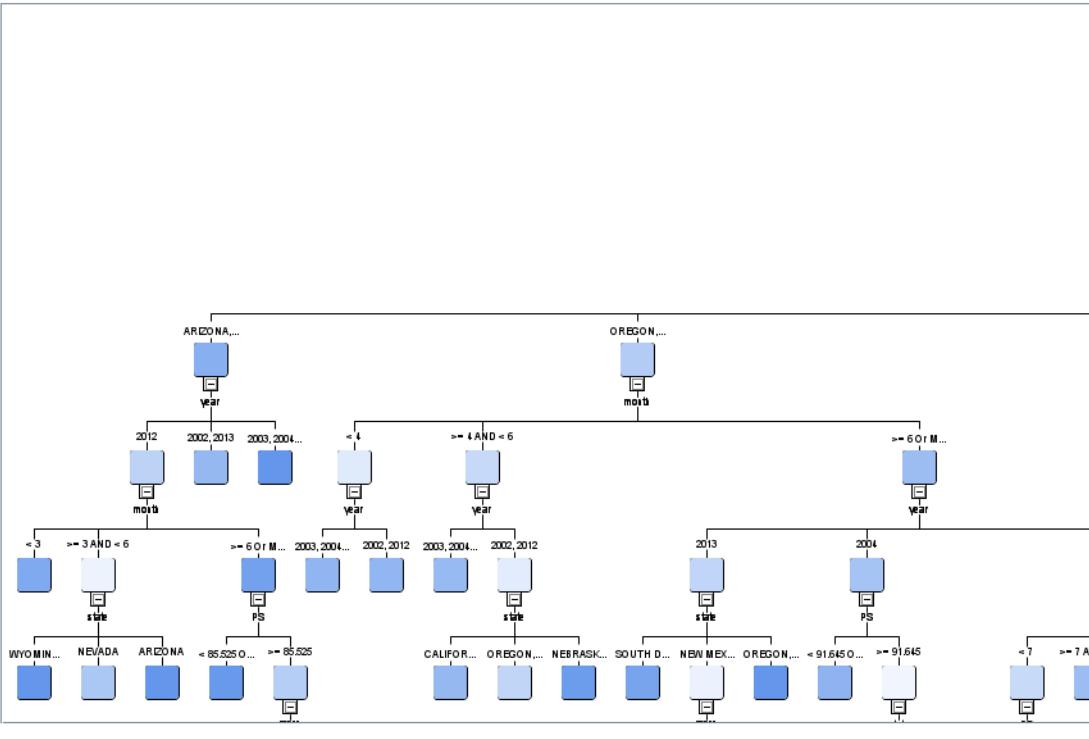
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D12 Model Fit Statistics

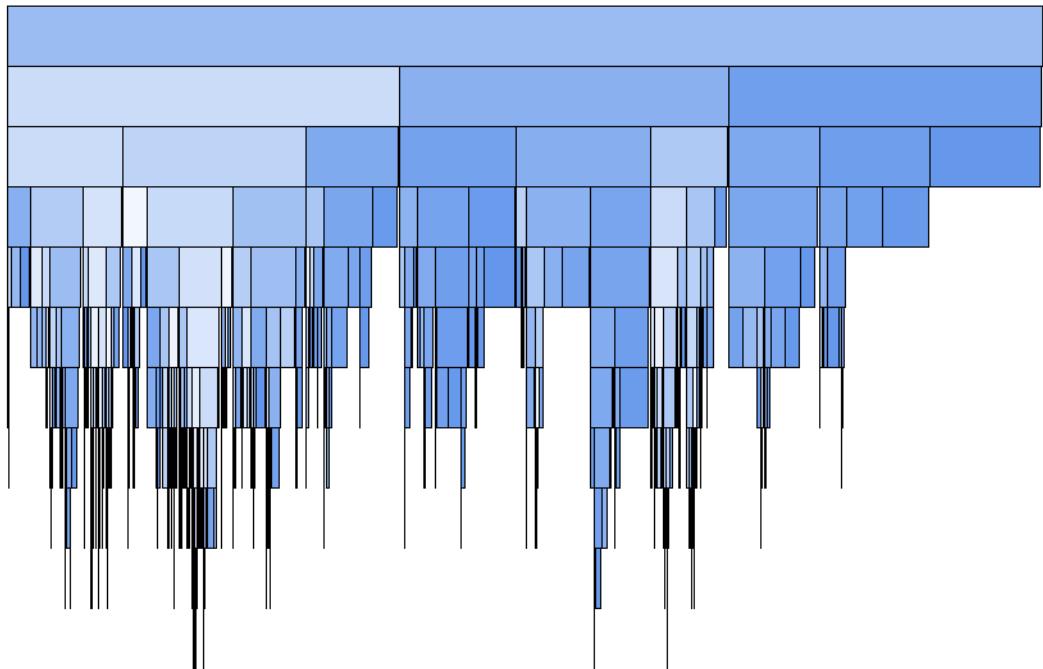
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	7475.90	2640.01	2808.53
Average Squared Error	0.06	0.06	0.07
Root Average Squared Error	0.24	0.25	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

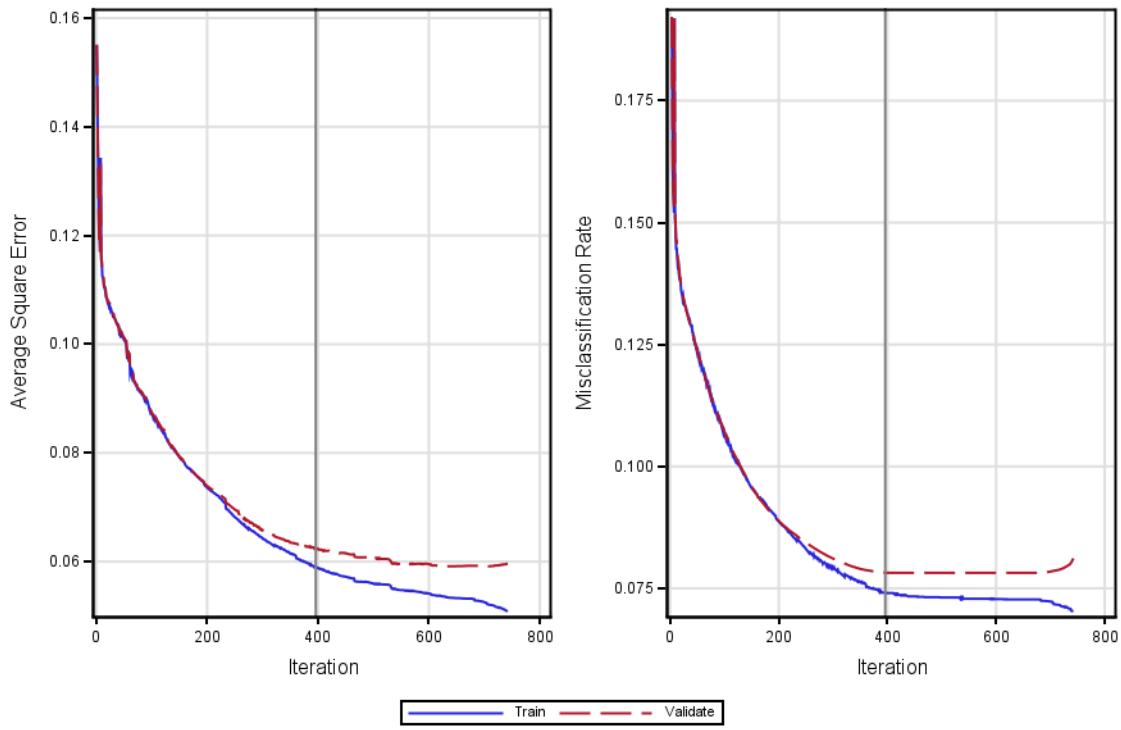
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Tree Diagram

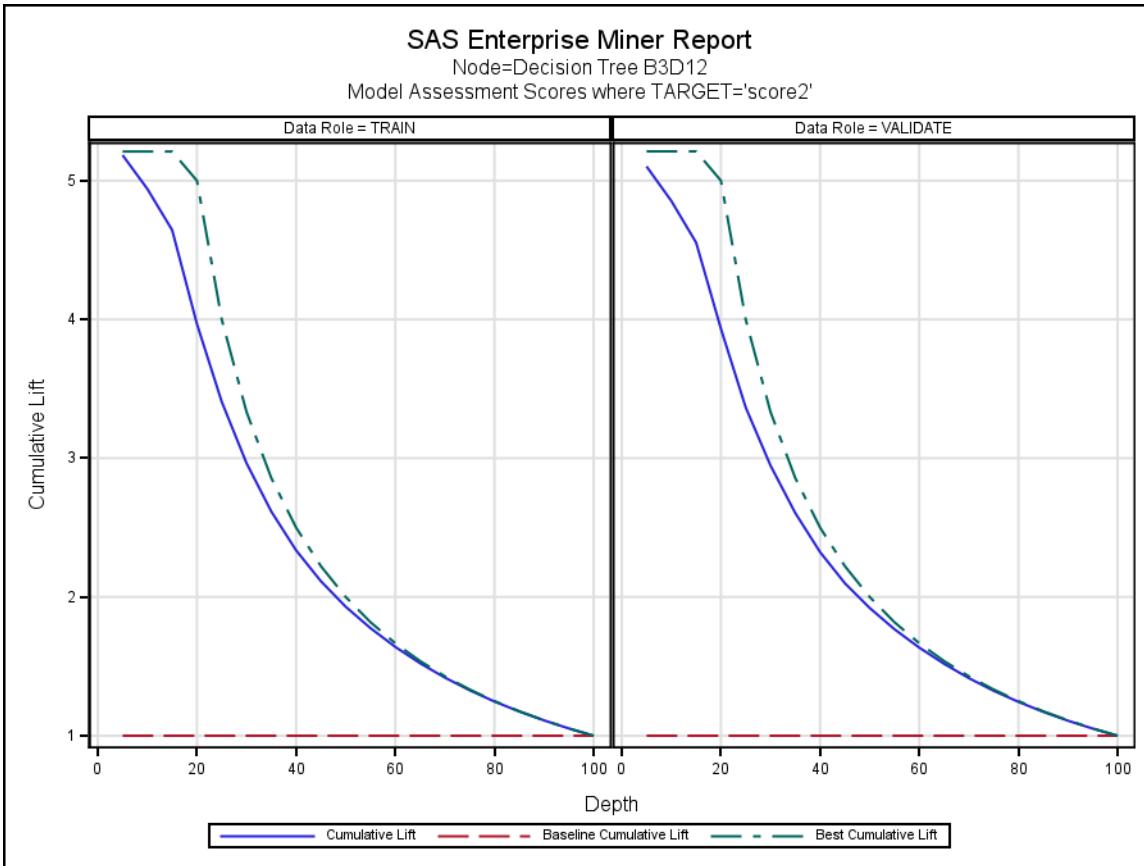
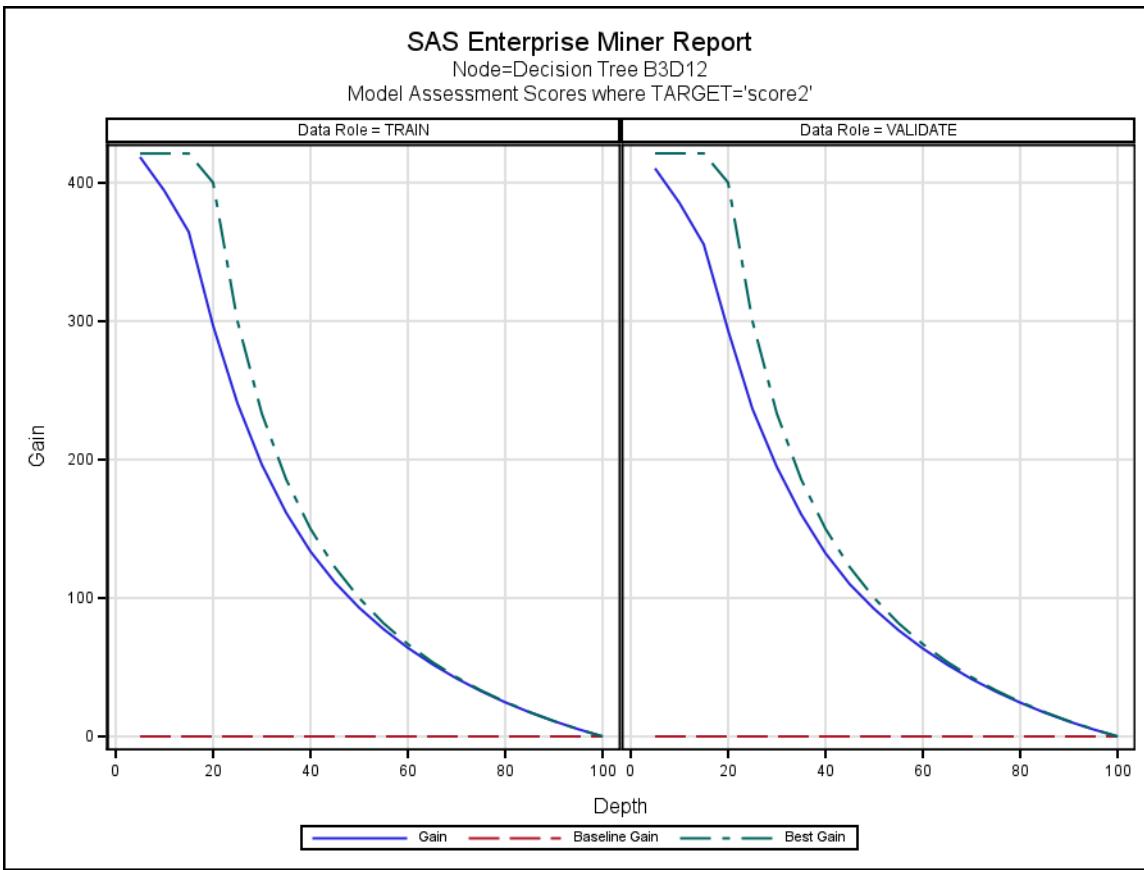


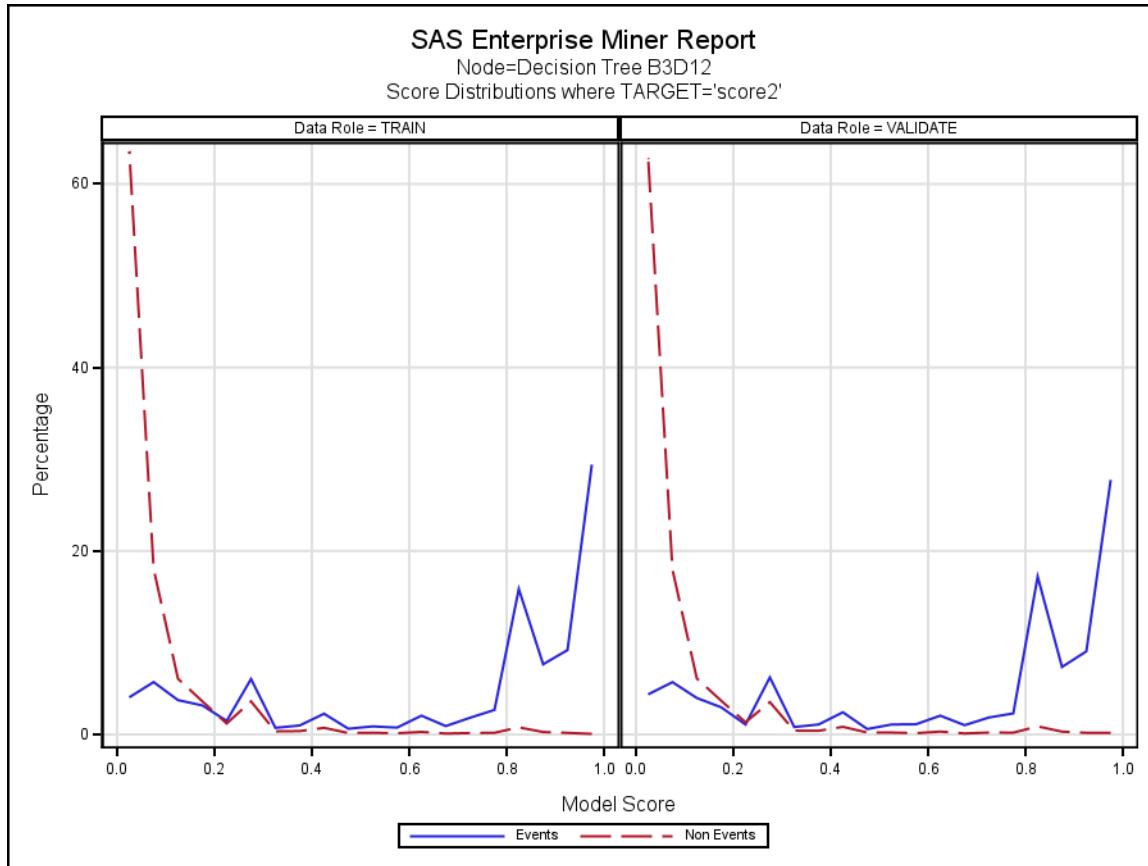
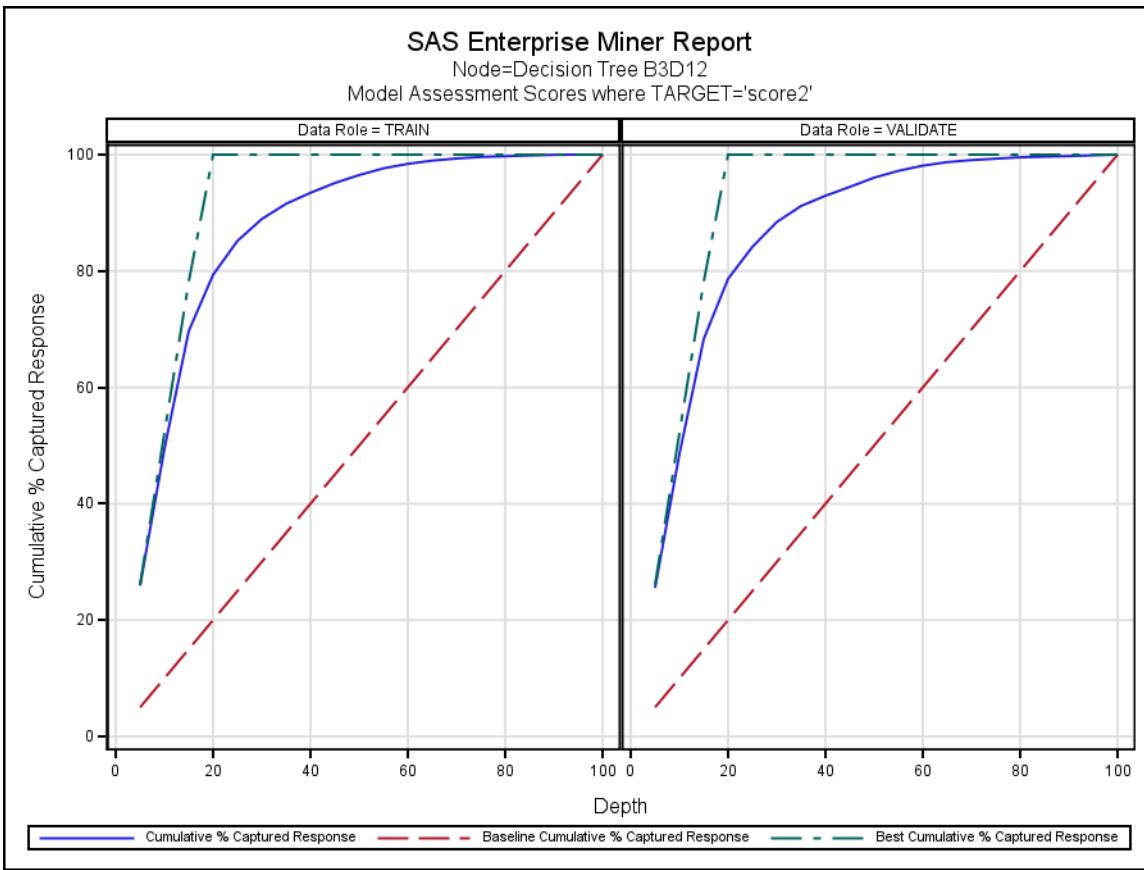
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Treemap



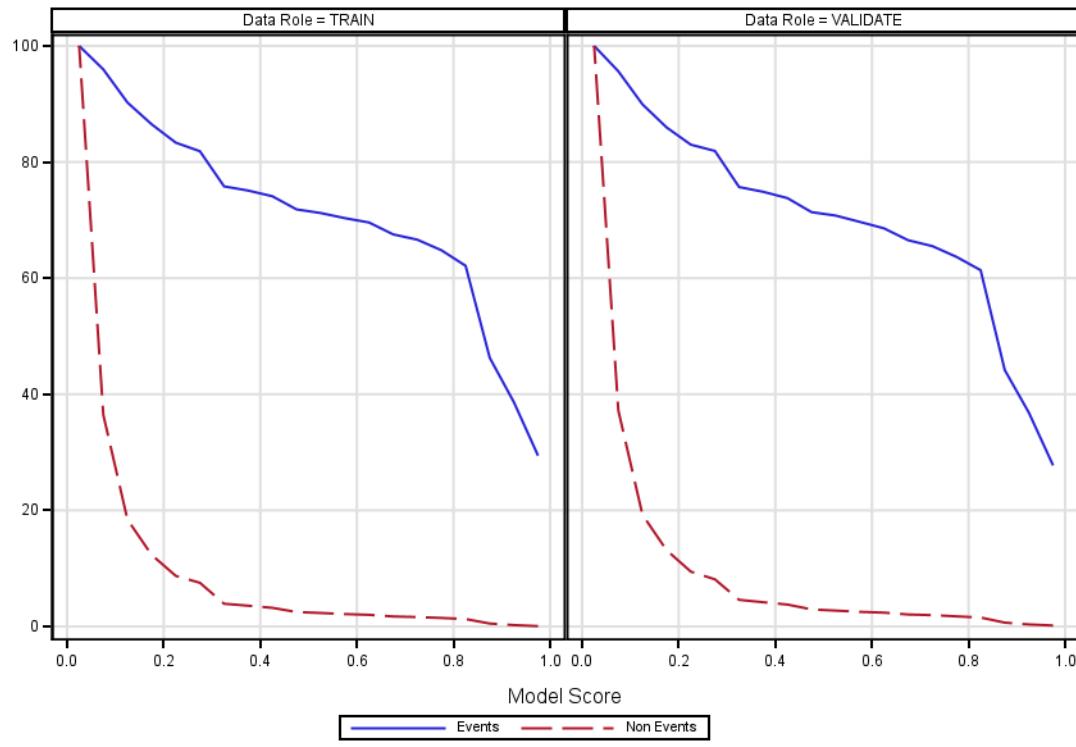
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B3D12
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D12

Score Distributions

Target Variable=score2 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	3576	29.4200	0.0645	29.420	0.064
0.90-0.95	1118	9.1979	0.1739	38.618	0.238
0.85-0.90	930	7.6512	0.2677	46.269	0.506
0.80-0.85	1927	15.8536	0.7758	62.123	1.282
0.75-0.80	325	2.6738	0.1837	64.796	1.466
0.70-0.75	222	1.8264	0.1563	66.623	1.622
0.65-0.70	111	0.9132	0.1016	67.536	1.723
0.60-0.65	249	2.0485	0.2814	69.585	2.005
0.55-0.60	91	0.7487	0.1309	70.333	2.136
0.50-0.55	107	0.8803	0.1876	71.213	2.323
0.45-0.50	76	0.6253	0.1622	71.839	2.486
0.40-0.45	275	2.2624	0.7230	74.101	3.209
0.35-0.40	119	0.9790	0.3674	75.080	3.576
0.30-0.35	88	0.7240	0.3400	75.804	3.916
0.25-0.30	735	6.0469	3.6052	81.851	7.521
0.20-0.25	180	1.4809	1.1939	83.332	8.715
0.15-0.20	385	3.1674	3.6169	86.499	12.332
0.10-0.15	455	3.7433	6.0732	90.243	18.405
0.05-0.10	694	5.7096	18.0397	95.952	36.445
0.00-0.05	492	4.0477	63.5552	100.000	100.000

Target Variable=score2 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	1124	27.7462	0.1700	27.746	0.170
0.90-0.95	367	9.0595	0.1817	36.806	0.352
0.85-0.90	298	7.3562	0.3107	44.162	0.662
0.80-0.85	697	17.2056	0.8793	61.368	1.542
0.75-0.80	93	2.2957	0.1993	63.663	1.741
0.70-0.75	75	1.8514	0.2110	65.515	1.952
0.65-0.70	41	1.0121	0.1114	66.527	2.063
0.60-0.65	83	2.0489	0.3165	68.576	2.380
0.55-0.60	45	1.1108	0.1407	69.686	2.521
0.50-0.55	44	1.0862	0.2110	70.773	2.732
0.45-0.50	24	0.5924	0.2110	71.365	2.943
0.40-0.45	98	2.4192	0.8324	73.784	3.775
0.35-0.40	44	1.0862	0.3986	74.870	4.174
0.30-0.35	33	0.8146	0.4162	75.685	4.590
0.25-0.30	252	6.2207	3.5289	81.906	8.119
0.20-0.25	44	1.0862	1.3307	82.992	9.450
0.15-0.20	120	2.9622	3.6813	85.954	13.131
0.10-0.15	161	3.9743	6.1024	89.928	19.233
0.05-0.10	231	5.7023	17.9612	95.631	37.194
0.00-0.05	177	4.3693	62.8056	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D16 Summary

Node id = Tree35
 Node label = Decision Tree B3D16
 Meta path = lds6 => Part3 => Tree35
 Notes =

Node=Decision Tree B3D16 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	16	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B3D16 Variable Summary

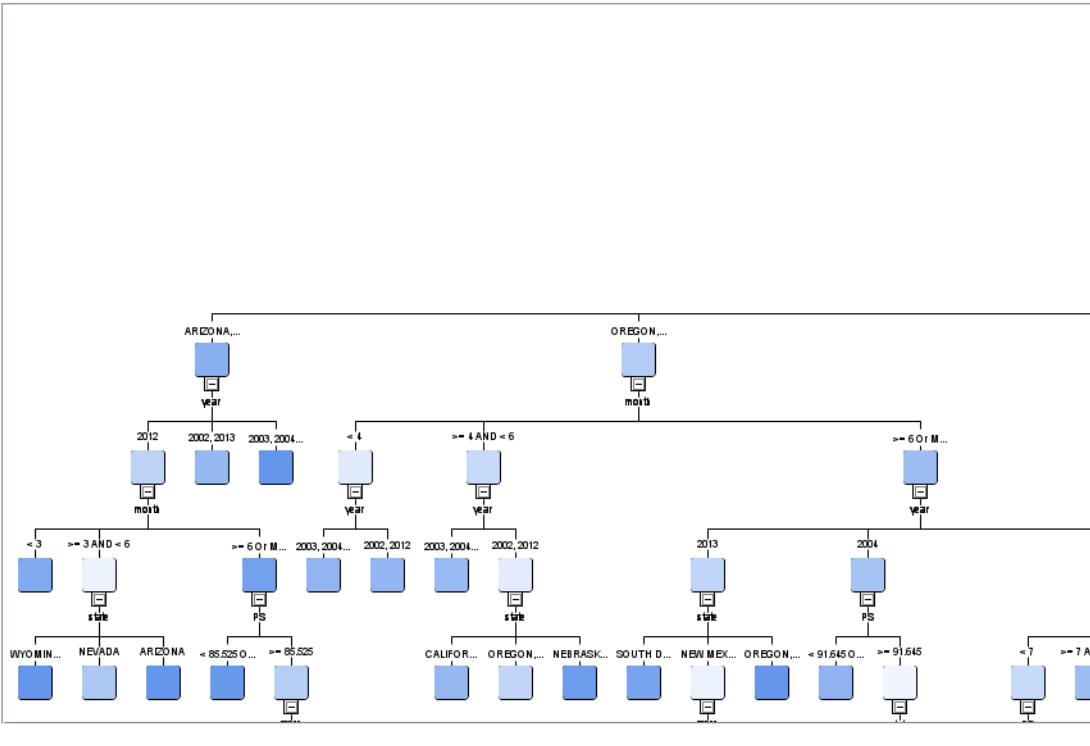
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D16 Model Fit Statistics

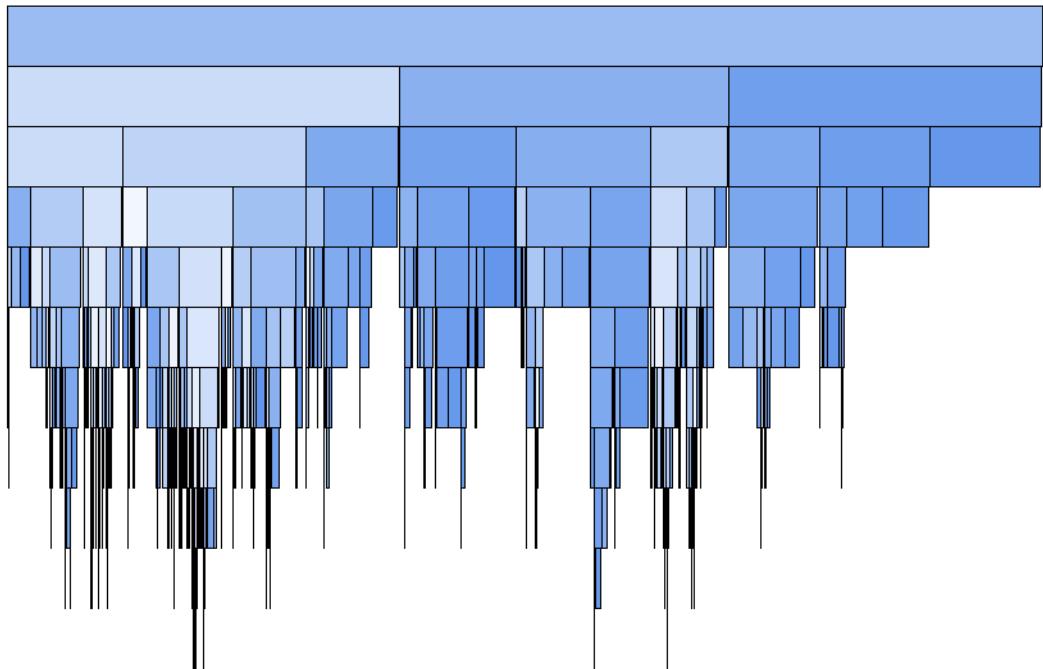
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	7475.90	2640.01	2808.53
Average Squared Error	0.06	0.06	0.07
Root Average Squared Error	0.24	0.25	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

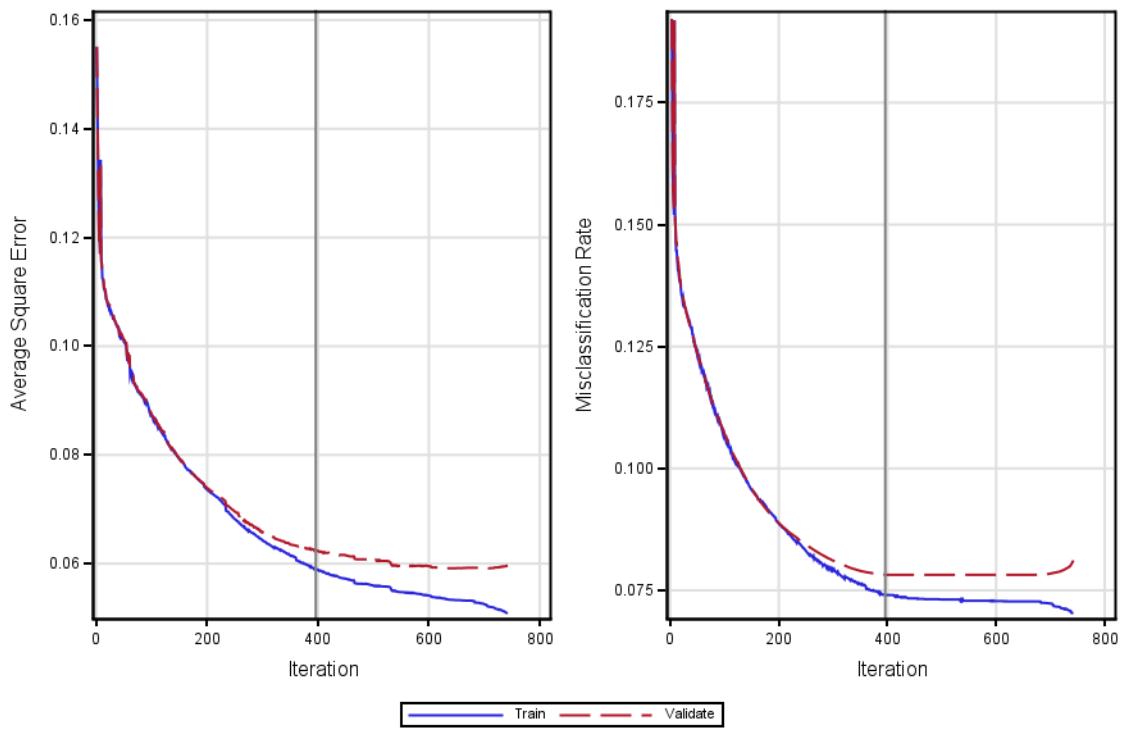
SAS Enterprise Miner Report
Node=Decision Tree B3D16
Tree Diagram



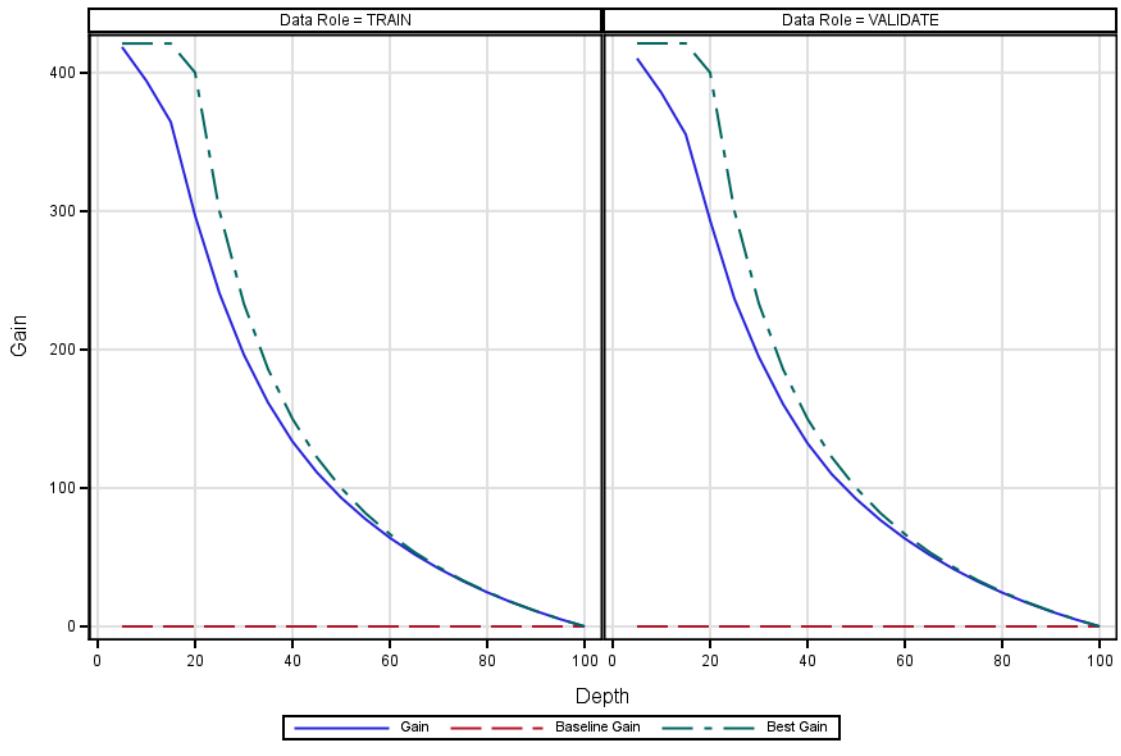
SAS Enterprise Miner Report
Node=Decision Tree B3D16
Treemap



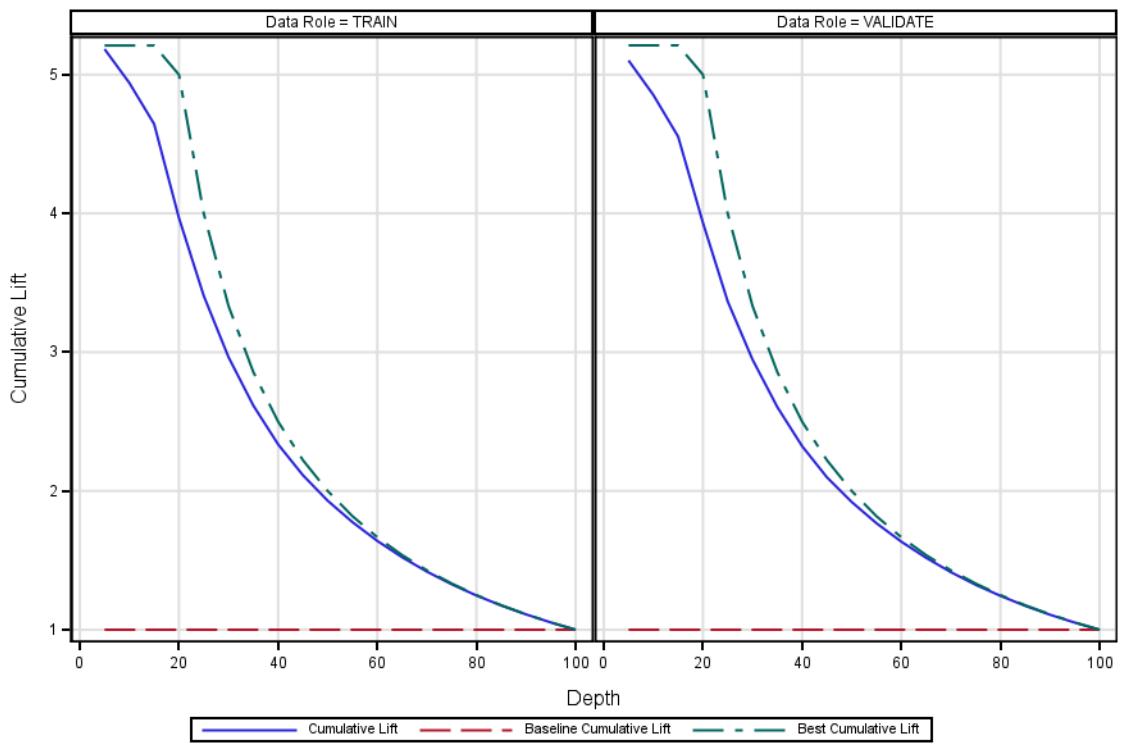
SAS Enterprise Miner Report
Node=Decision Tree B3D16
Model Iteration Plots

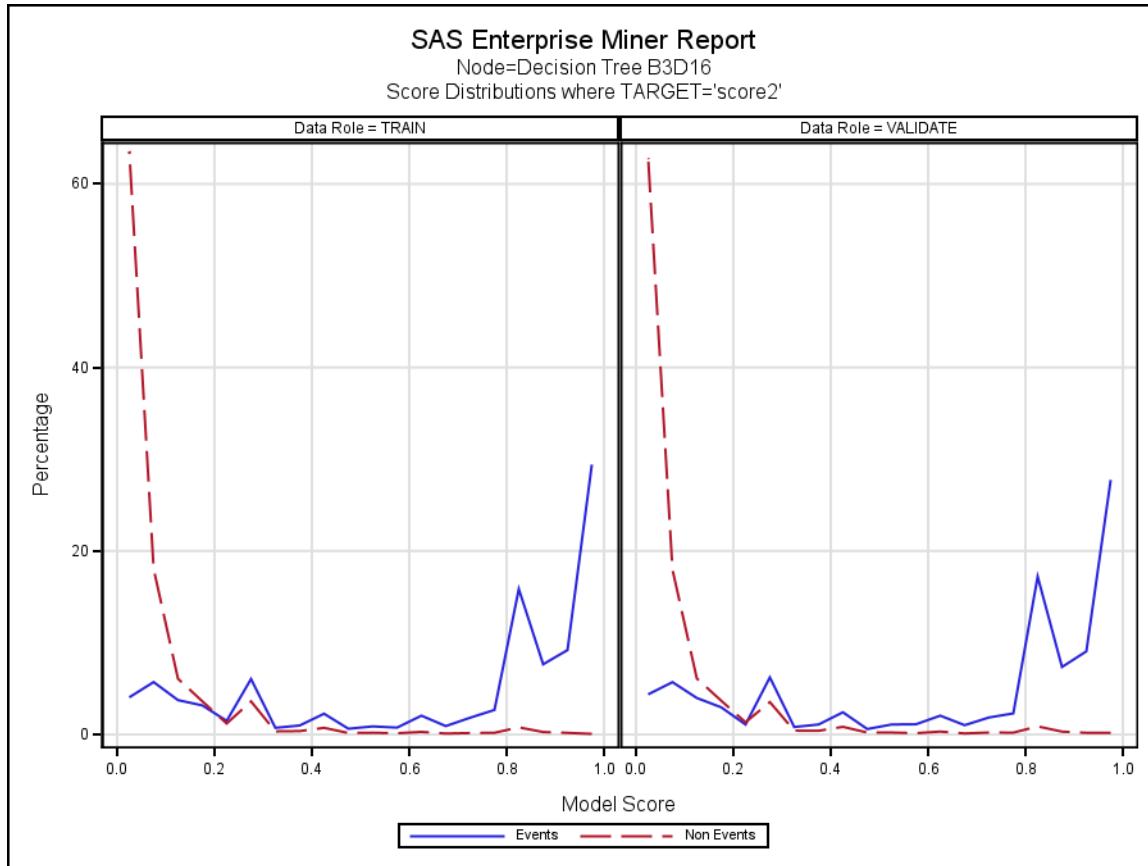
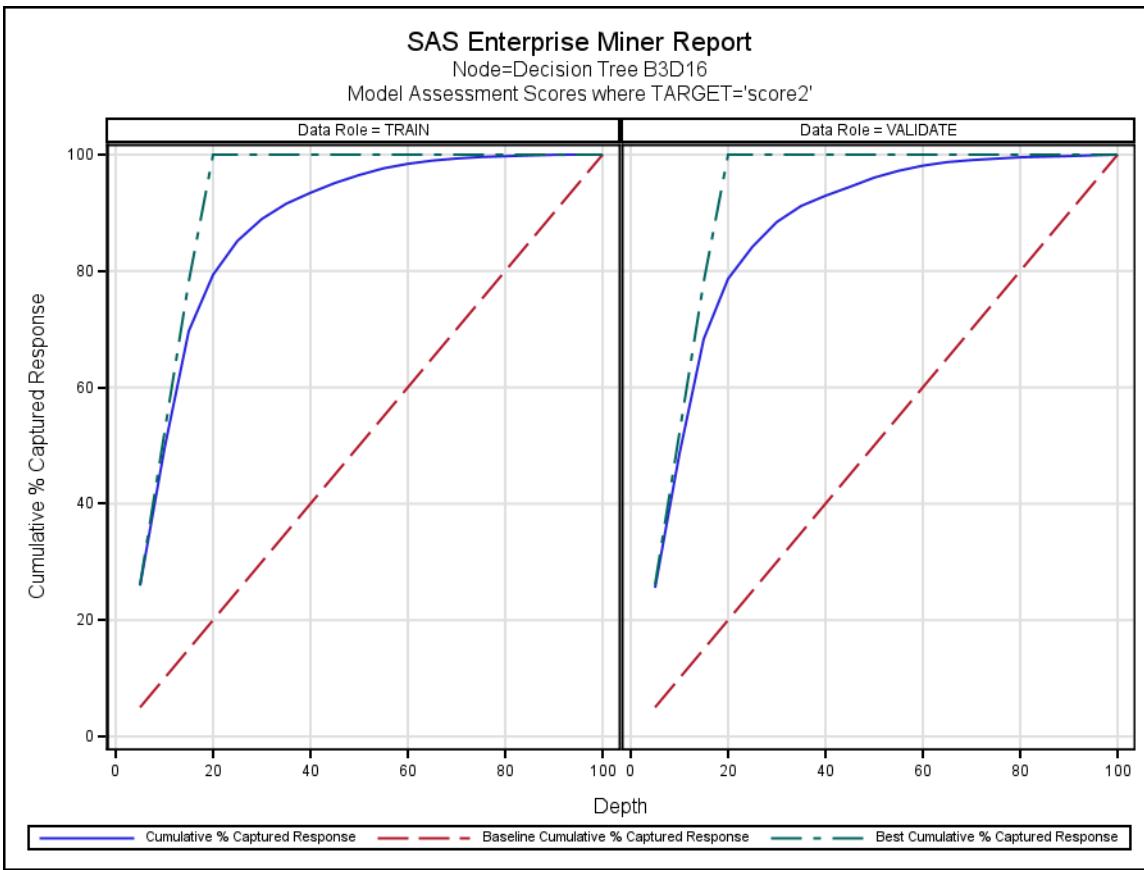


SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Model Assessment Scores where TARGET='score2'

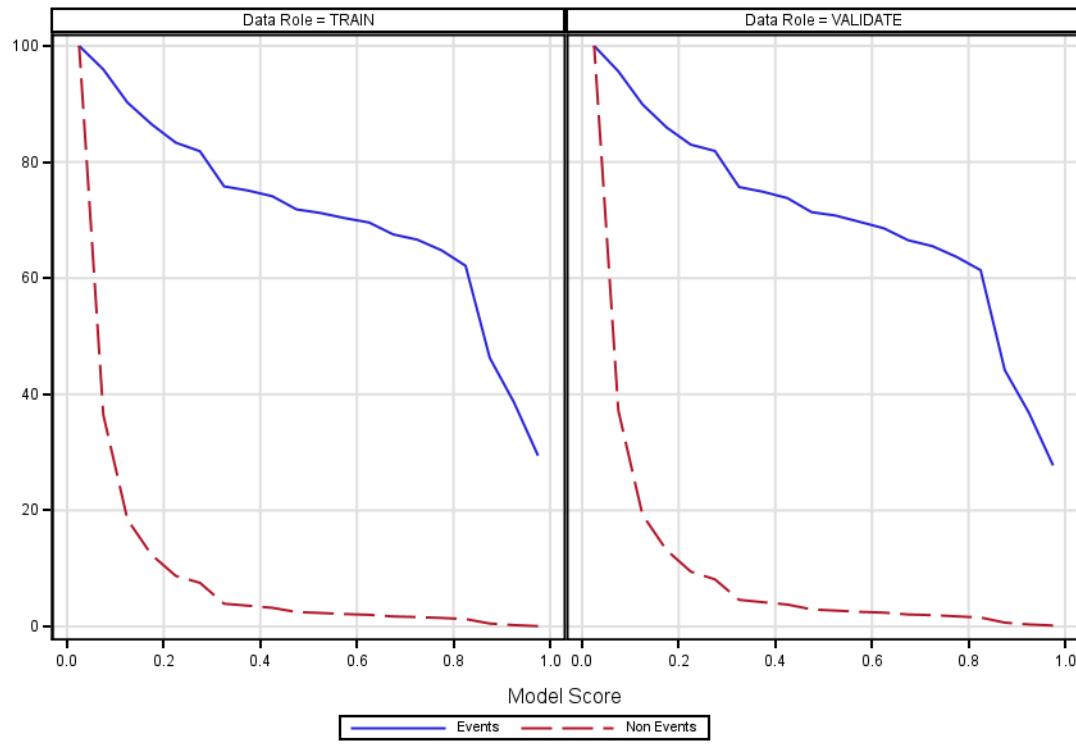


SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Model Assessment Scores where TARGET='score2'





SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D16

Score Distributions

Target Variable=score2 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	3576	29.4200	0.0645	29.420	0.064
0.90-0.95	1118	9.1979	0.1739	38.618	0.238
0.85-0.90	930	7.6512	0.2677	46.269	0.506
0.80-0.85	1927	15.8536	0.7758	62.123	1.282
0.75-0.80	325	2.6738	0.1837	64.796	1.466
0.70-0.75	222	1.8264	0.1563	66.623	1.622
0.65-0.70	111	0.9132	0.1016	67.536	1.723
0.60-0.65	249	2.0485	0.2814	69.585	2.005
0.55-0.60	91	0.7487	0.1309	70.333	2.136
0.50-0.55	107	0.8803	0.1876	71.213	2.323
0.45-0.50	76	0.6253	0.1622	71.839	2.486
0.40-0.45	275	2.2624	0.7230	74.101	3.209
0.35-0.40	119	0.9790	0.3674	75.080	3.576
0.30-0.35	88	0.7240	0.3400	75.804	3.916
0.25-0.30	735	6.0469	3.6052	81.851	7.521
0.20-0.25	180	1.4809	1.1939	83.332	8.715
0.15-0.20	385	3.1674	3.6169	86.499	12.332
0.10-0.15	455	3.7433	6.0732	90.243	18.405
0.05-0.10	694	5.7096	18.0397	95.952	36.445
0.00-0.05	492	4.0477	63.5552	100.000	100.000

Target Variable=score2 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	1124	27.7462	0.1700	27.746	0.170
0.90-0.95	367	9.0595	0.1817	36.806	0.352
0.85-0.90	298	7.3562	0.3107	44.162	0.662
0.80-0.85	697	17.2056	0.8793	61.368	1.542
0.75-0.80	93	2.2957	0.1993	63.663	1.741
0.70-0.75	75	1.8514	0.2110	65.515	1.952
0.65-0.70	41	1.0121	0.1114	66.527	2.063
0.60-0.65	83	2.0489	0.3165	68.576	2.380
0.55-0.60	45	1.1108	0.1407	69.686	2.521
0.50-0.55	44	1.0862	0.2110	70.773	2.732
0.45-0.50	24	0.5924	0.2110	71.365	2.943
0.40-0.45	98	2.4192	0.8324	73.784	3.775
0.35-0.40	44	1.0862	0.3986	74.870	4.174
0.30-0.35	33	0.8146	0.4162	75.685	4.590
0.25-0.30	252	6.2207	3.5289	81.906	8.119
0.20-0.25	44	1.0862	1.3307	82.992	9.450
0.15-0.20	120	2.9622	3.6813	85.954	13.131
0.10-0.15	161	3.9743	6.1024	89.928	19.233
0.05-0.10	231	5.7023	17.9612	95.631	37.194
0.00-0.05	177	4.3693	62.8056	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B4D8 Summary

Node id = Tree37
 Node label = Decision Tree B4D8
 Meta path = lds6 => Part3 => Tree37
 Notes =

Node=Decision Tree B4D8 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	8	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B4D8 Variable Summary

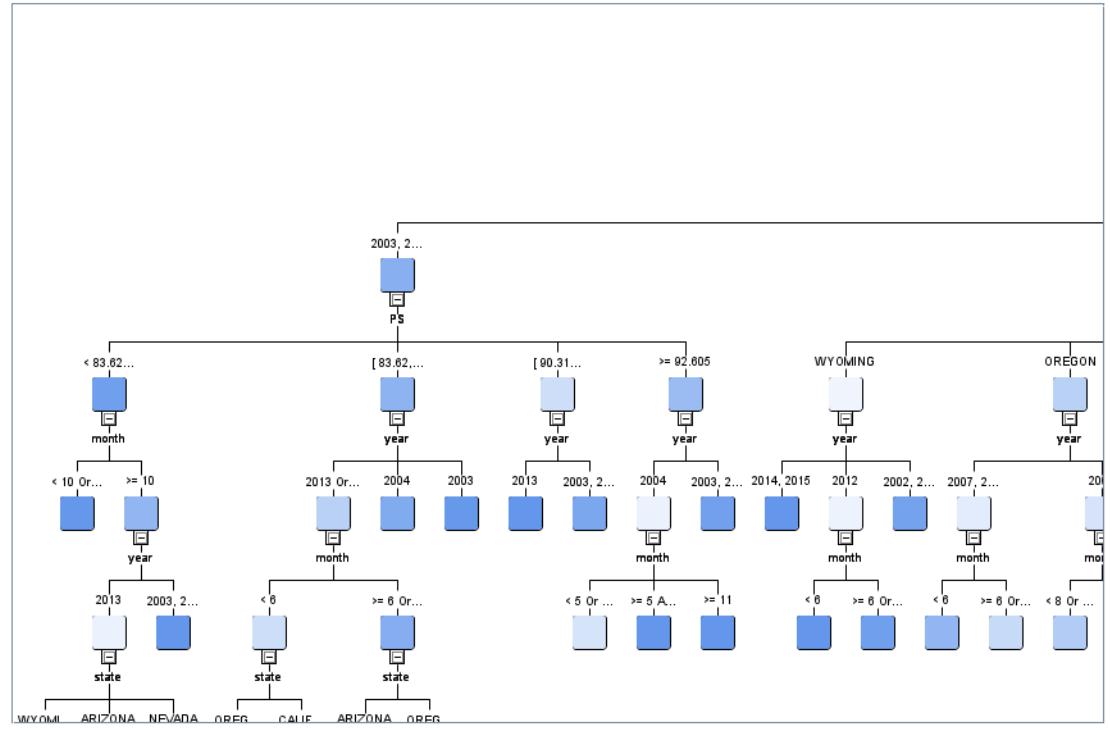
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D8 Model Fit Statistics

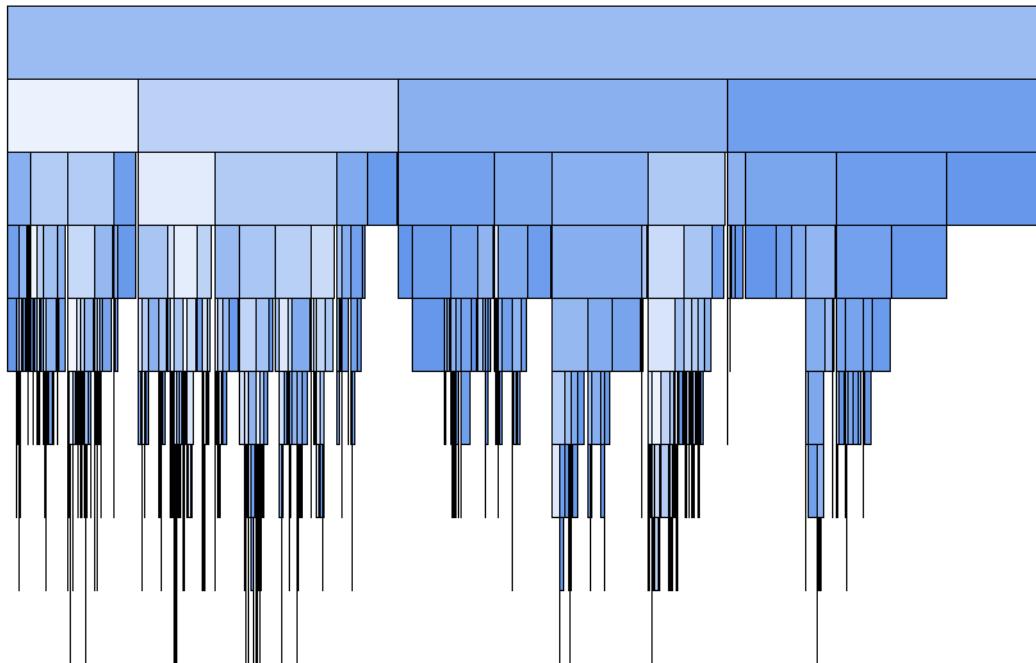
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.07	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6766.78	2416.51	2528.11
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.24
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

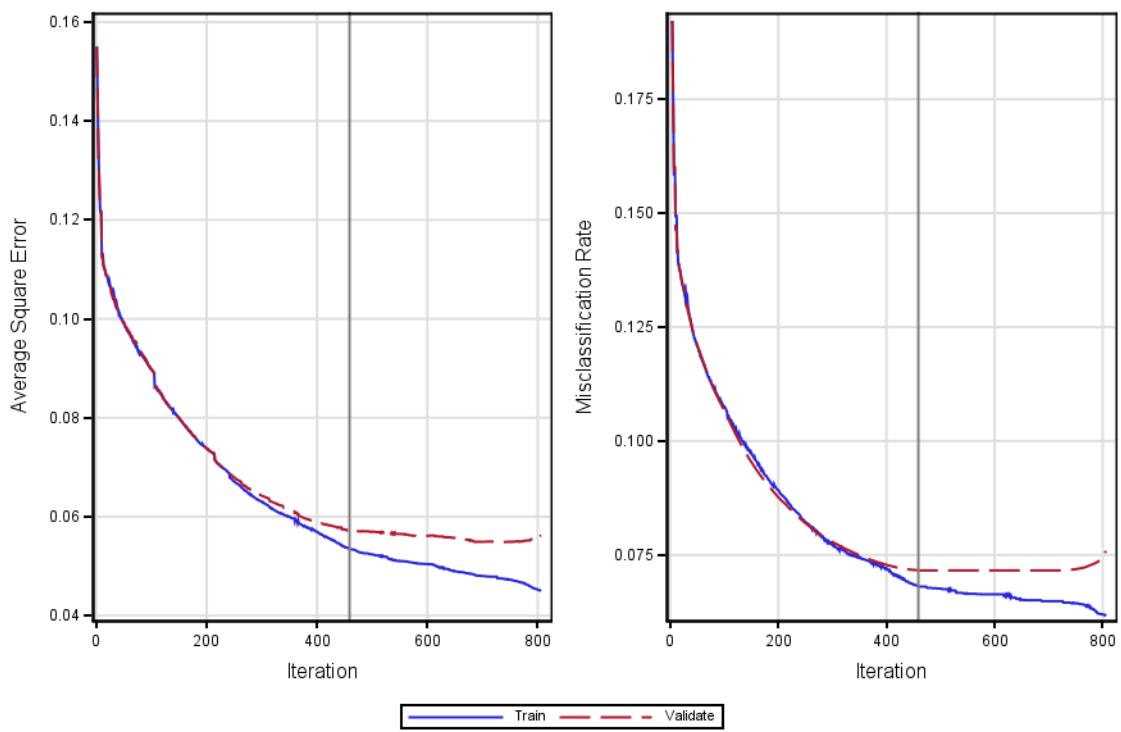
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Tree Diagram

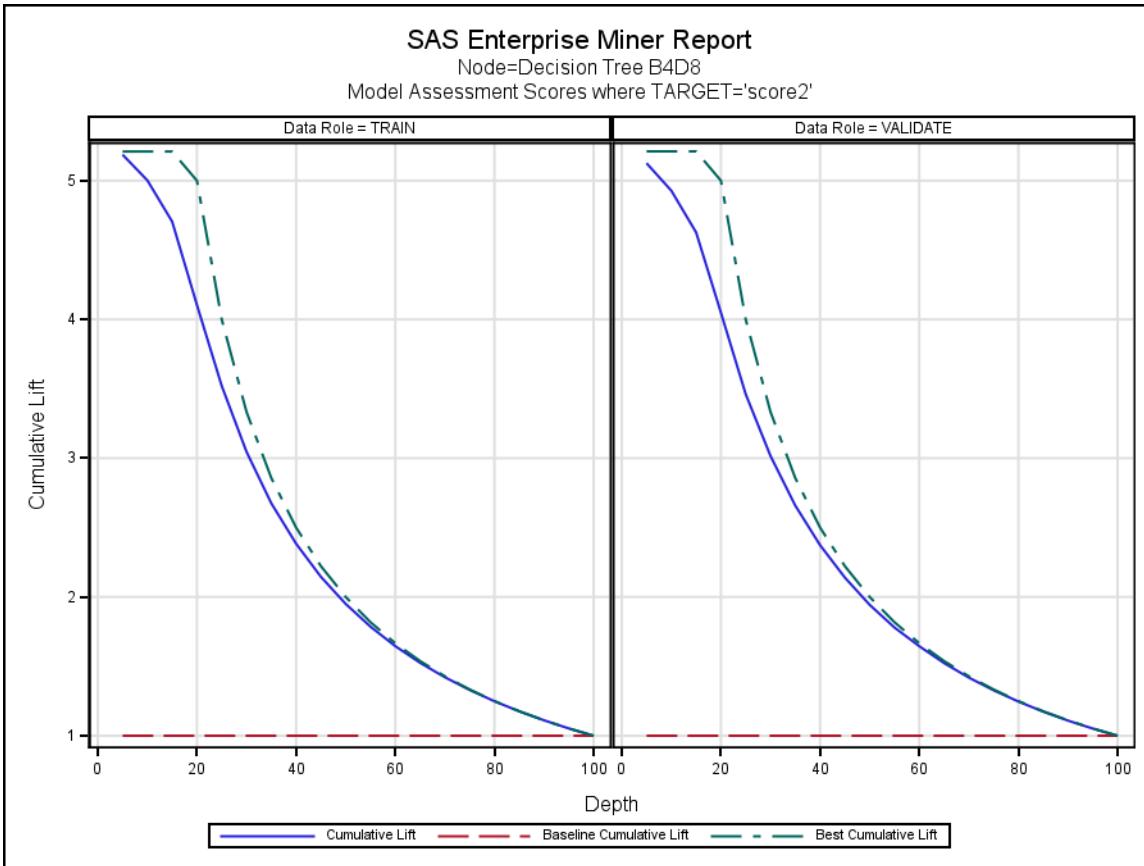
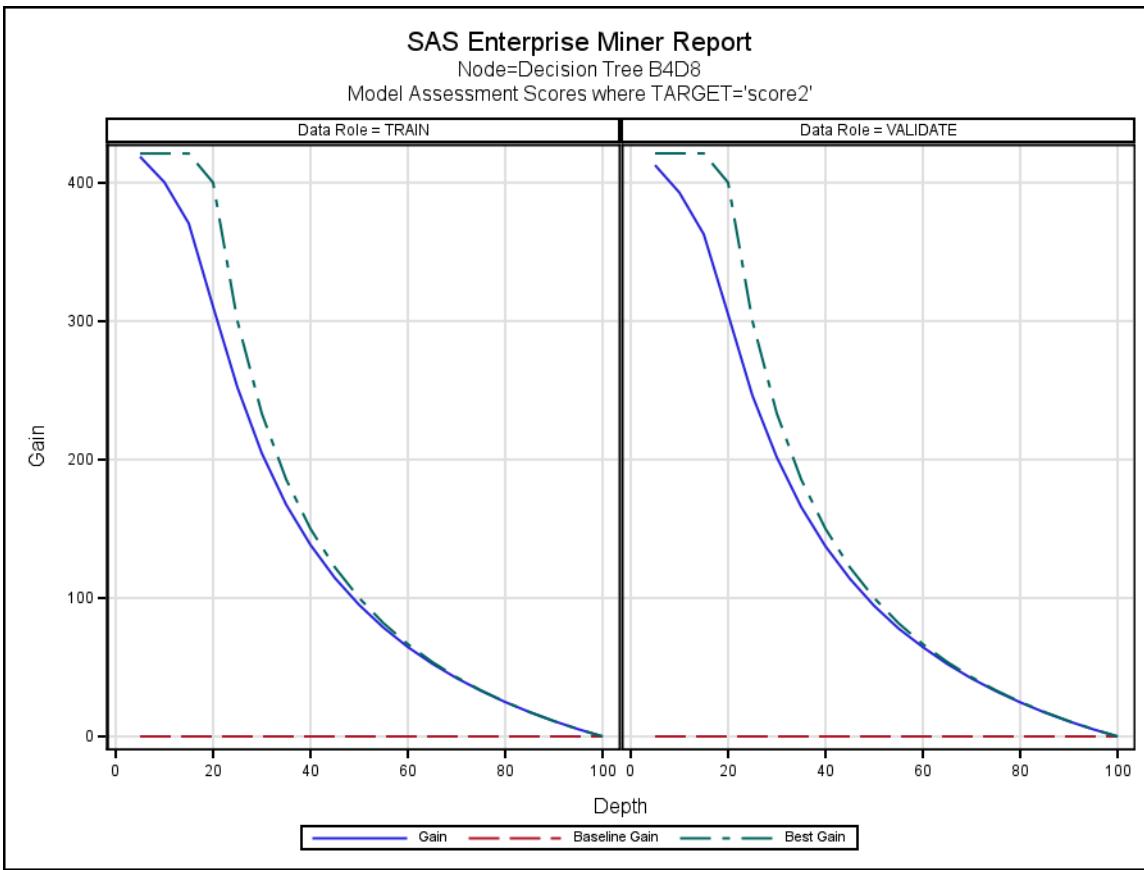


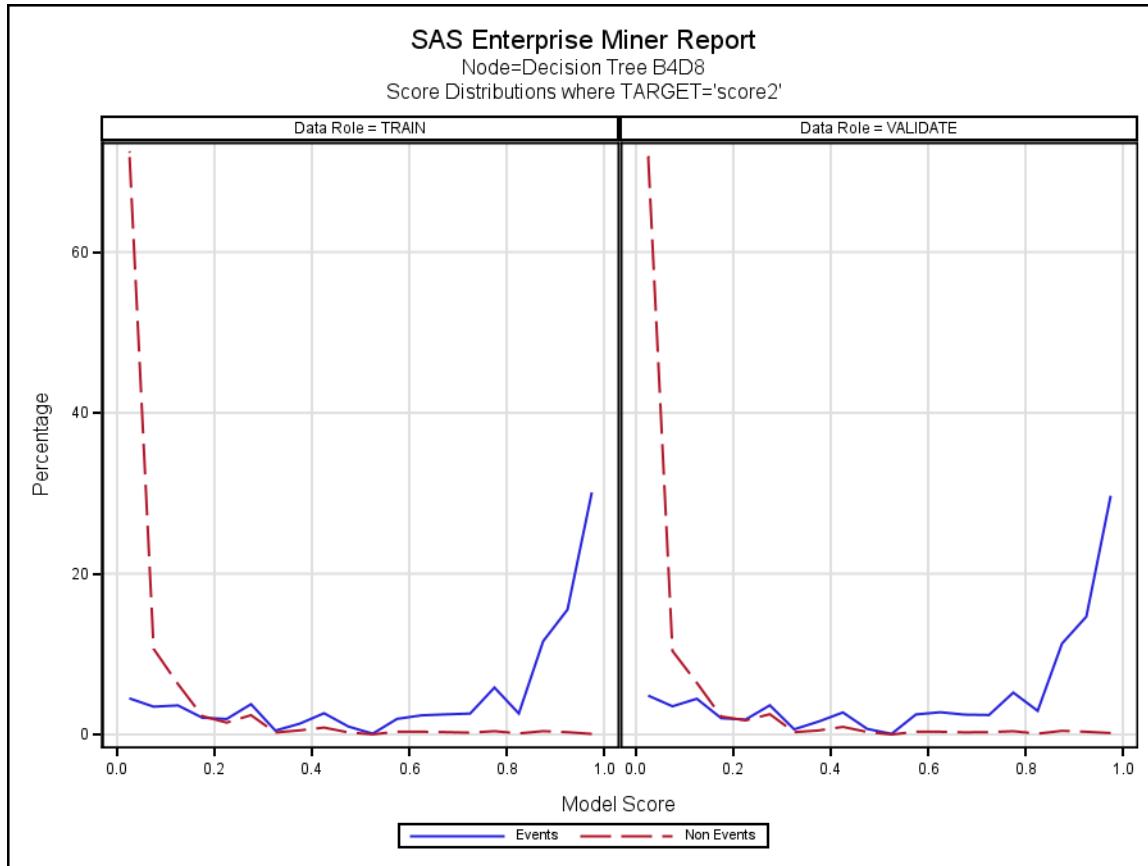
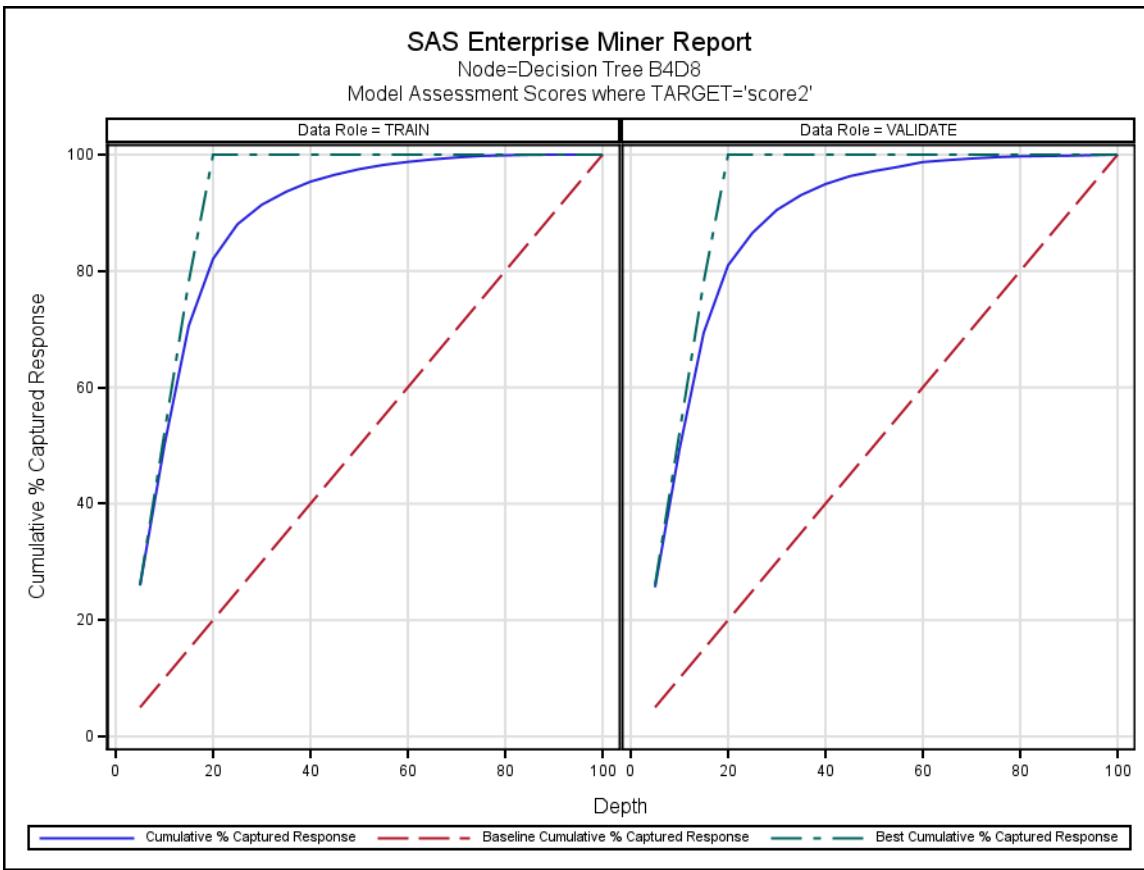
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Treemap



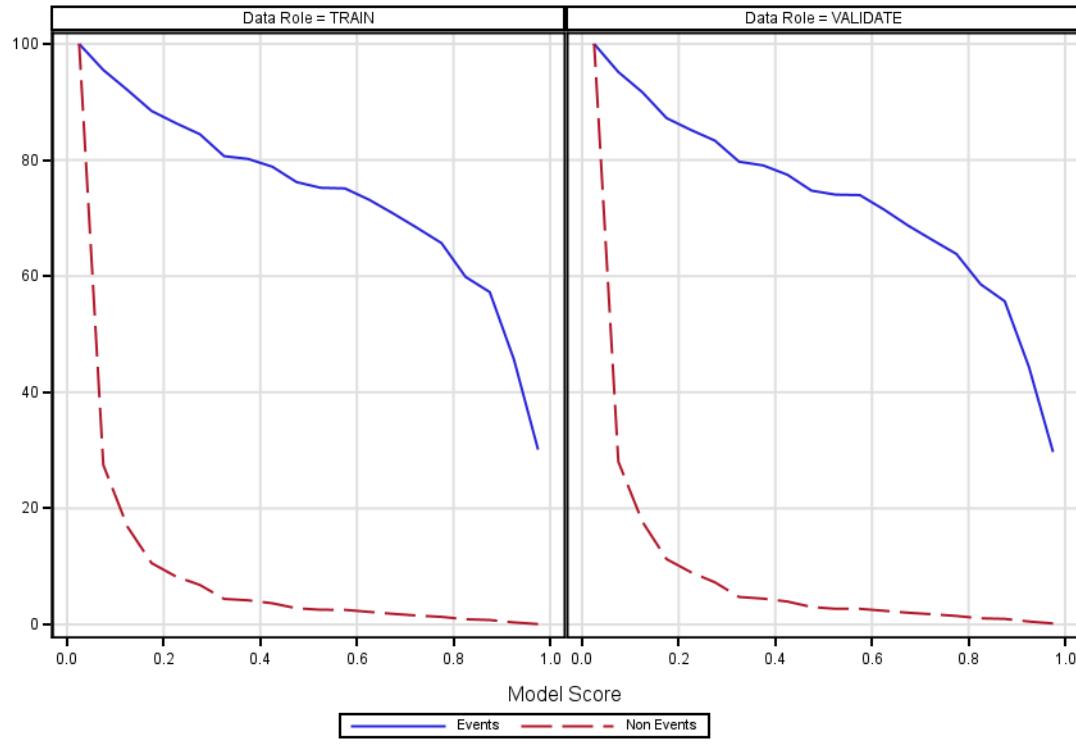
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B4D8
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D8

Score Distributions

Target Variable=score2 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	3661	30.1193	0.0703	30.119	0.070
0.90-0.95	1888	15.5327	0.2833	45.652	0.354
0.85-0.90	1410	11.6002	0.4143	57.252	0.768
0.80-0.85	317	2.6080	0.1309	59.860	0.899
0.75-0.80	709	5.8330	0.4103	65.693	1.309
0.70-0.75	316	2.5998	0.2267	68.293	1.536
0.65-0.70	304	2.5010	0.2912	70.794	1.827
0.60-0.65	289	2.3776	0.3420	73.172	2.169
0.55-0.60	236	1.9416	0.3478	75.113	2.517
0.50-0.55	12	0.0987	0.0195	75.212	2.536
0.45-0.50	120	0.9872	0.2560	76.199	2.792
0.40-0.45	321	2.6409	0.8559	78.840	3.648
0.35-0.40	163	1.3410	0.5100	80.181	4.158
0.30-0.35	59	0.4854	0.2443	80.666	4.402
0.25-0.30	458	3.7680	2.4015	84.434	6.804
0.20-0.25	234	1.9251	1.4753	86.360	8.279
0.15-0.20	253	2.0814	2.2862	88.441	10.565
0.10-0.15	439	3.6117	6.2666	92.053	16.832
0.05-0.10	420	3.4554	10.6398	95.508	27.472
0.00-0.05	546	4.4920	72.5281	100.000	100.000

Target Variable=score2 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	1203	29.6964	0.1759	29.696	0.176
0.90-0.95	594	14.6630	0.3341	44.359	0.510
0.85-0.90	458	11.3059	0.4514	55.665	0.961
0.80-0.85	119	2.9375	0.0997	58.603	1.061
0.75-0.80	211	5.2086	0.4045	63.811	1.466
0.70-0.75	98	2.4192	0.2931	66.231	1.759
0.65-0.70	100	2.4685	0.2638	68.699	2.022
0.60-0.65	112	2.7647	0.3341	71.464	2.357
0.55-0.60	101	2.4932	0.3400	73.957	2.697
0.50-0.55	3	0.0741	0.0000	74.031	2.697
0.45-0.50	28	0.6912	0.3107	74.722	3.007
0.40-0.45	111	2.7401	0.9438	77.462	3.951
0.35-0.40	65	1.6045	0.4983	79.067	4.449
0.30-0.35	26	0.6418	0.2872	79.709	4.737
0.25-0.30	147	3.6287	2.5207	83.337	7.257
0.20-0.25	75	1.8514	1.7527	85.189	9.010
0.15-0.20	82	2.0242	2.2393	87.213	11.249
0.10-0.15	180	4.4433	6.4248	91.656	17.674
0.05-0.10	142	3.5053	10.3816	95.162	28.056
0.00-0.05	196	4.8383	71.9444	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B4D12 Summary

Node id = Tree38
 Node label = Decision Tree B4D12
 Meta path = lds6 => Part3 => Tree38
 Notes =

Node=Decision Tree B4D12 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	12	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B4D12 Variable Summary

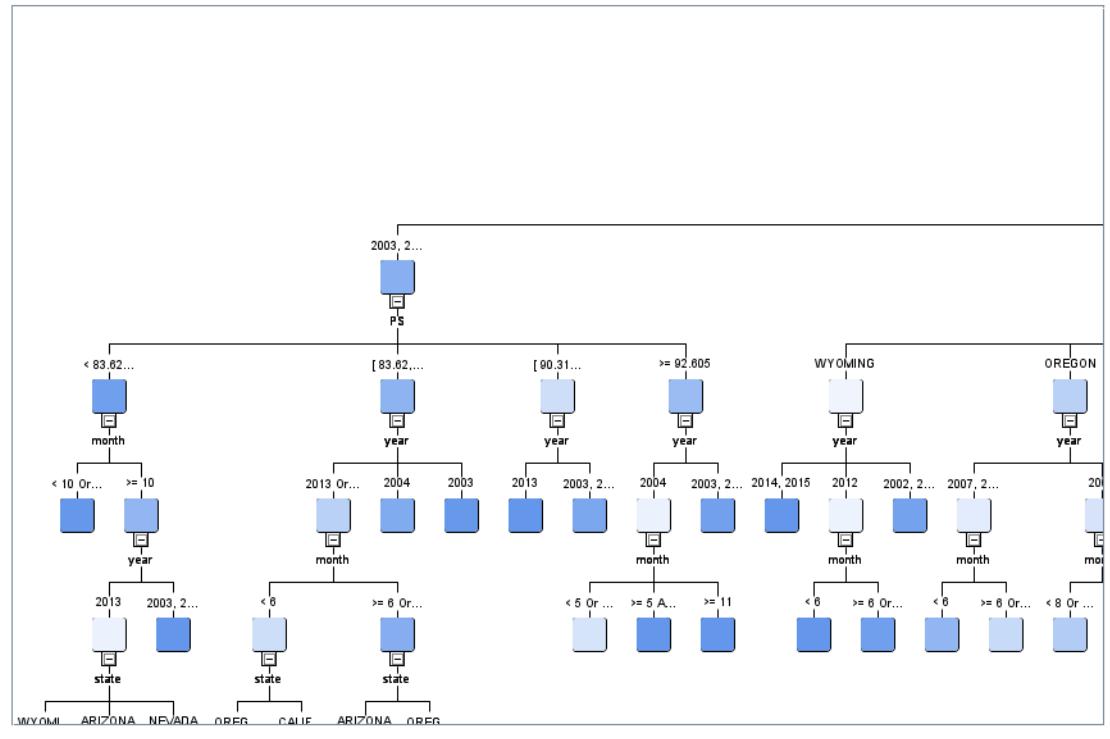
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D12 Model Fit Statistics

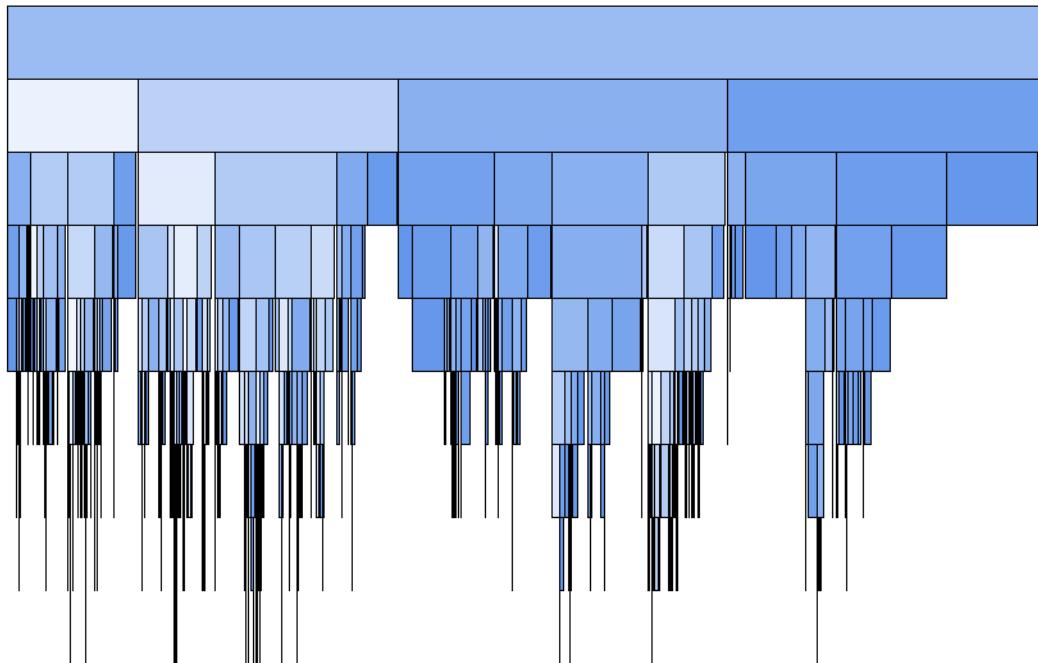
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.07	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6766.78	2416.51	2528.11
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.24
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

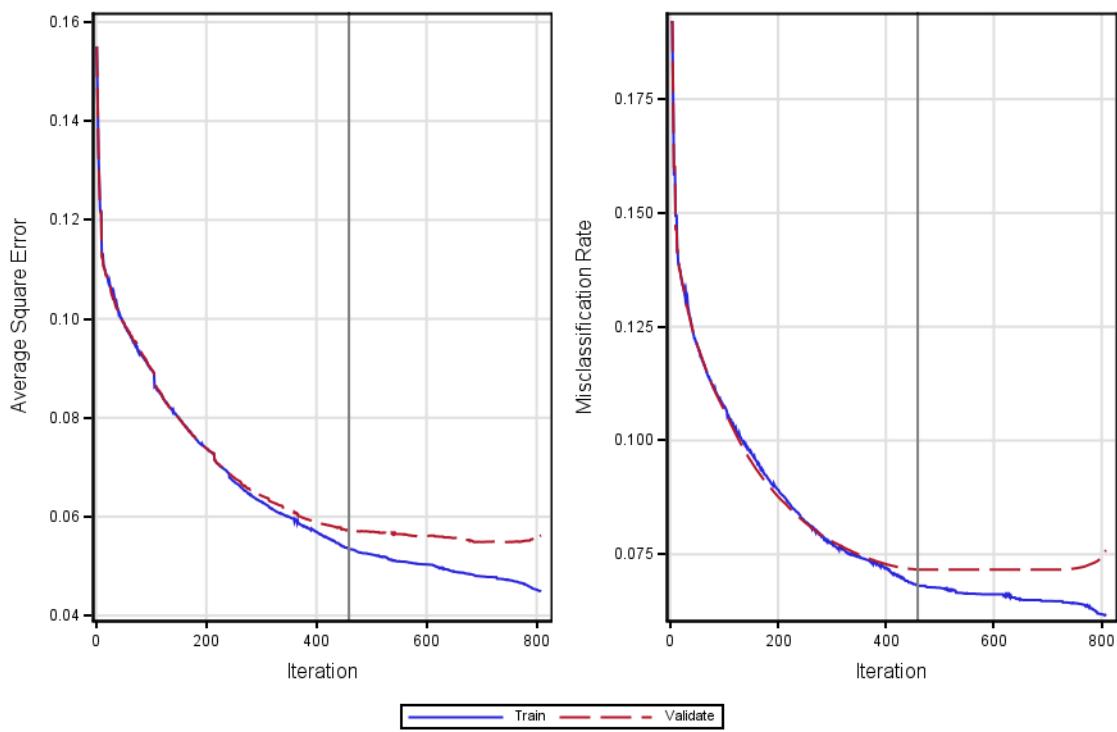
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Tree Diagram



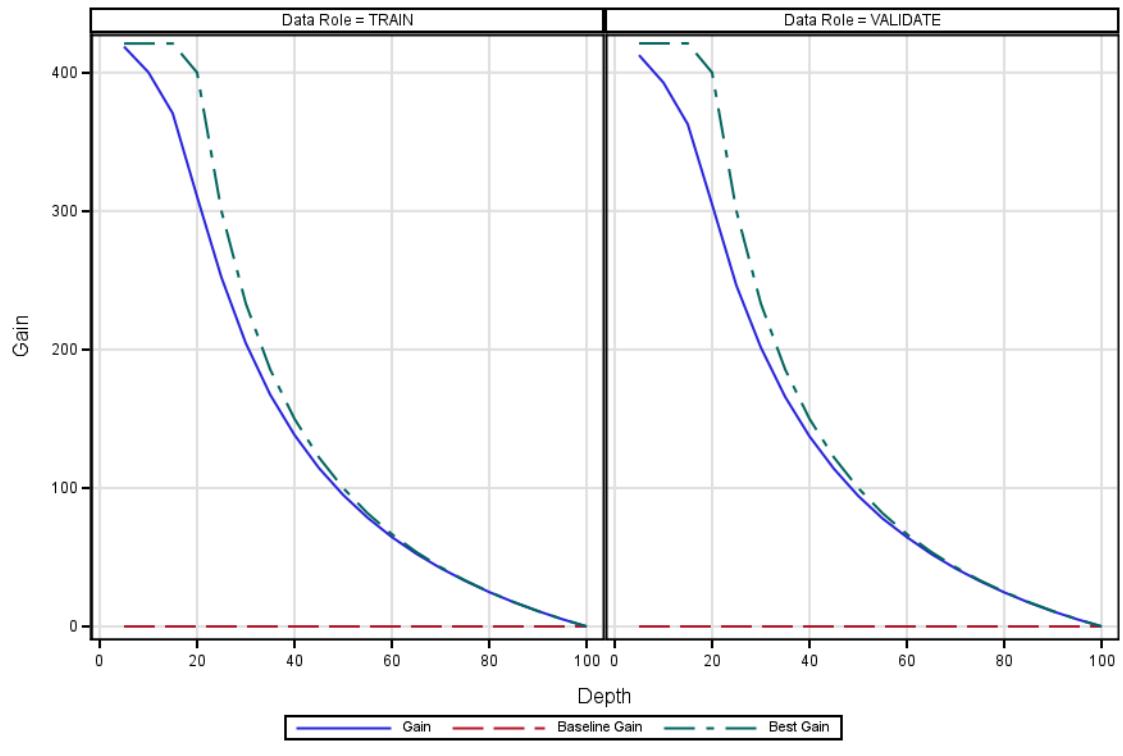
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Treemap



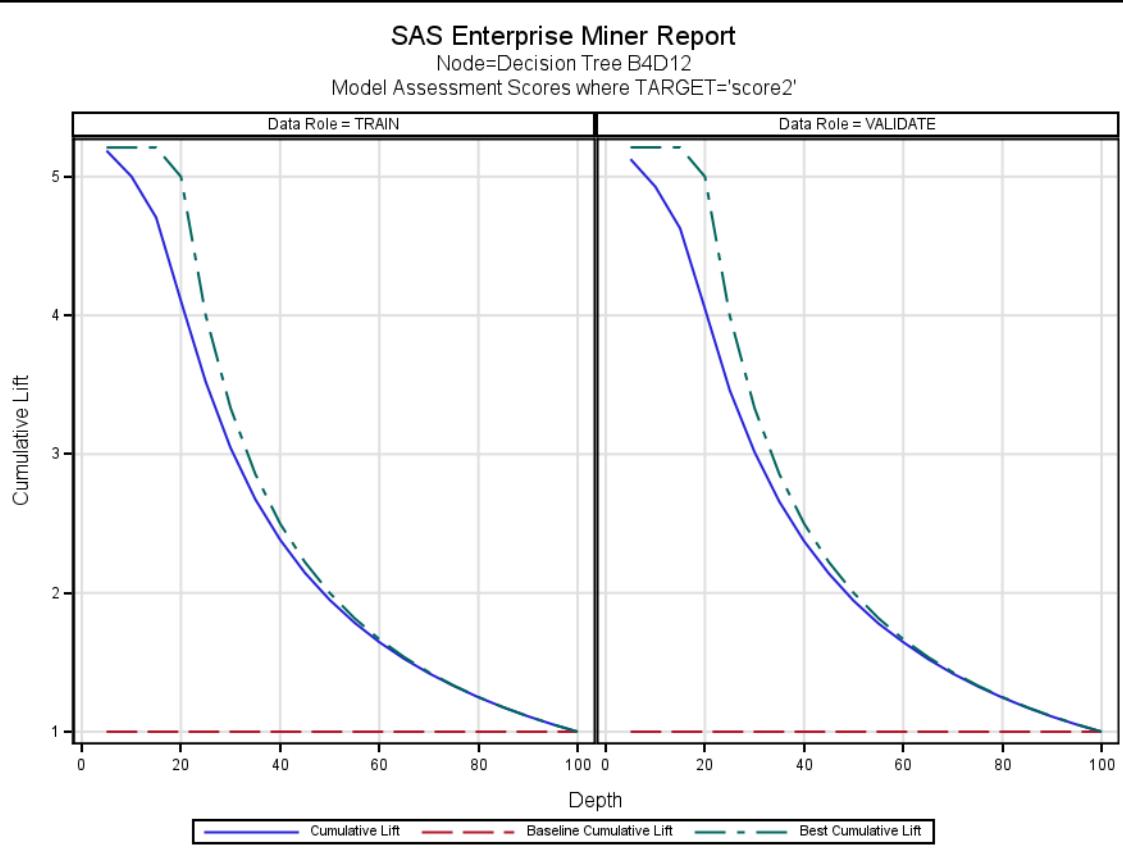
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Model Iteration Plots



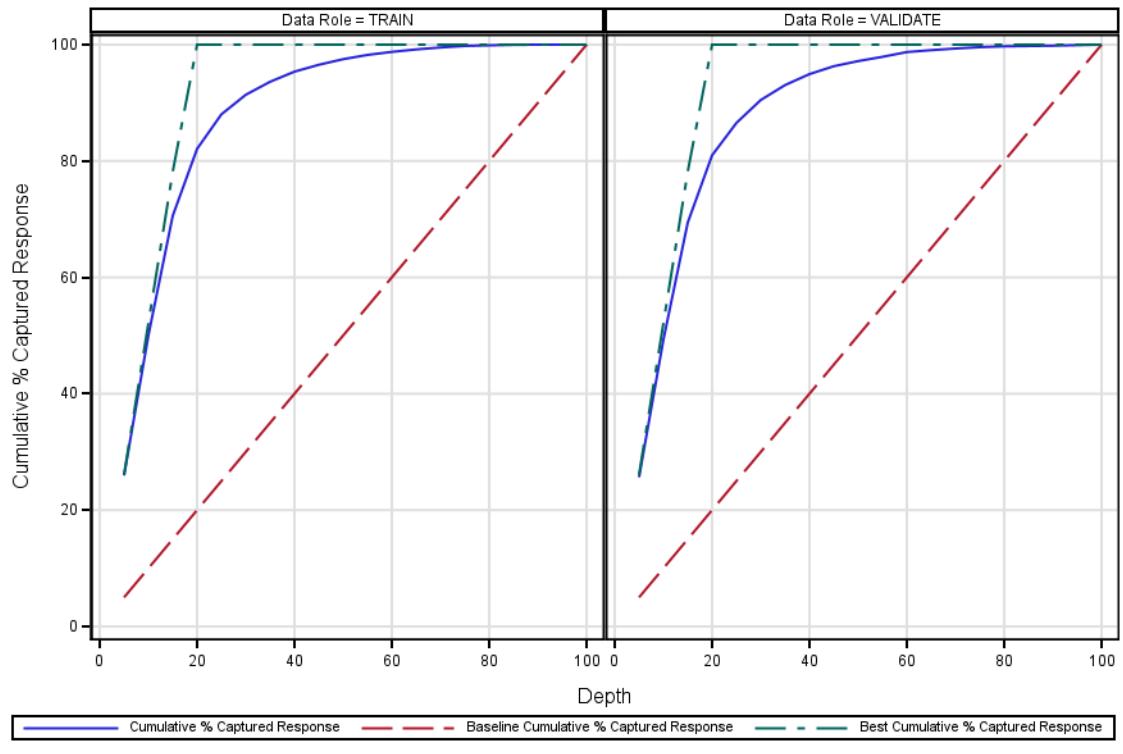
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



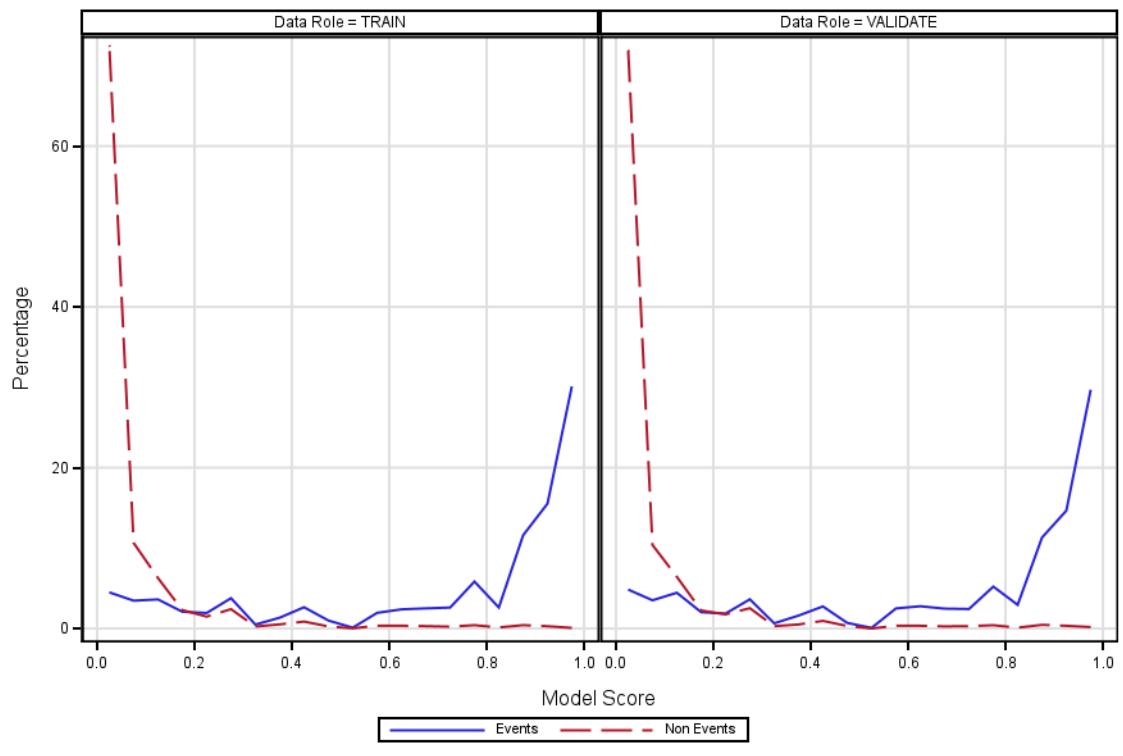
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



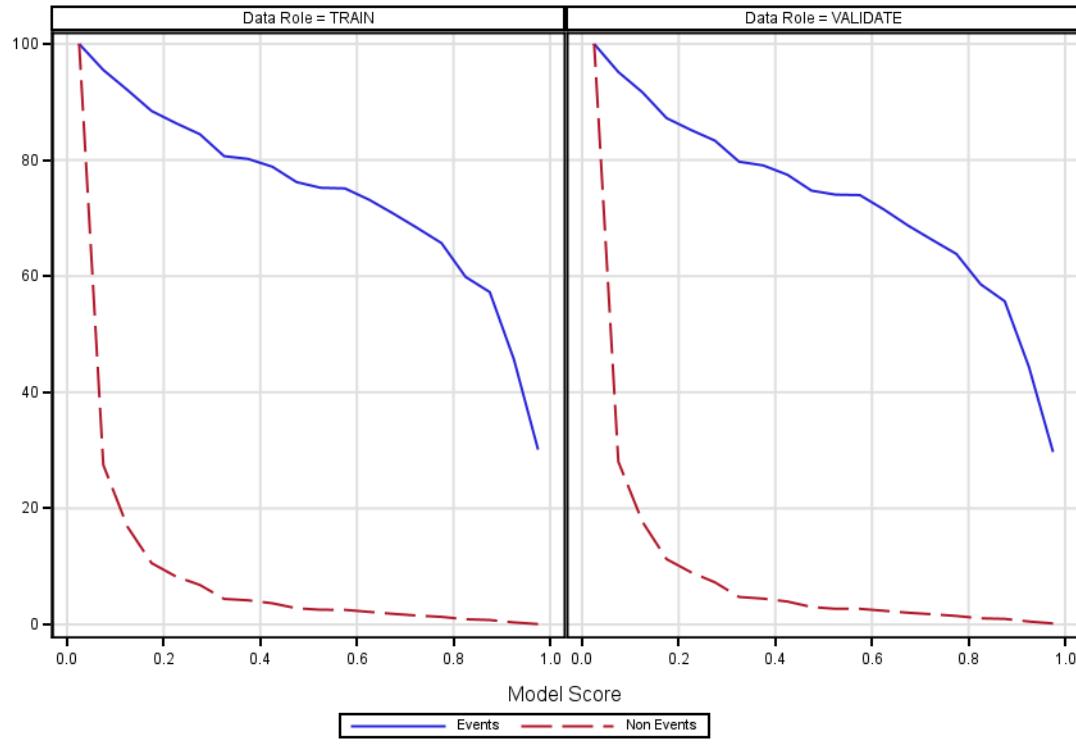
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D12

Score Distributions

Target Variable=score2 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	3661	30.1193	0.0703	30.119	0.070
0.90-0.95	1888	15.5327	0.2833	45.652	0.354
0.85-0.90	1410	11.6002	0.4143	57.252	0.768
0.80-0.85	317	2.6080	0.1309	59.860	0.899
0.75-0.80	709	5.8330	0.4103	65.693	1.309
0.70-0.75	316	2.5998	0.2267	68.293	1.536
0.65-0.70	304	2.5010	0.2912	70.794	1.827
0.60-0.65	289	2.3776	0.3420	73.172	2.169
0.55-0.60	236	1.9416	0.3478	75.113	2.517
0.50-0.55	12	0.0987	0.0195	75.212	2.536
0.45-0.50	120	0.9872	0.2560	76.199	2.792
0.40-0.45	321	2.6409	0.8559	78.840	3.648
0.35-0.40	163	1.3410	0.5100	80.181	4.158
0.30-0.35	59	0.4854	0.2443	80.666	4.402
0.25-0.30	458	3.7680	2.4015	84.434	6.804
0.20-0.25	234	1.9251	1.4753	86.360	8.279
0.15-0.20	253	2.0814	2.2862	88.441	10.565
0.10-0.15	439	3.6117	6.2666	92.053	16.832
0.05-0.10	420	3.4554	10.6398	95.508	27.472
0.00-0.05	546	4.4920	72.5281	100.000	100.000

Target Variable=score2 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	1203	29.6964	0.1759	29.696	0.176
0.90-0.95	594	14.6630	0.3341	44.359	0.510
0.85-0.90	458	11.3059	0.4514	55.665	0.961
0.80-0.85	119	2.9375	0.0997	58.603	1.061
0.75-0.80	211	5.2086	0.4045	63.811	1.466
0.70-0.75	98	2.4192	0.2931	66.231	1.759
0.65-0.70	100	2.4685	0.2638	68.699	2.022
0.60-0.65	112	2.7647	0.3341	71.464	2.357
0.55-0.60	101	2.4932	0.3400	73.957	2.697
0.50-0.55	3	0.0741	0.0000	74.031	2.697
0.45-0.50	28	0.6912	0.3107	74.722	3.007
0.40-0.45	111	2.7401	0.9438	77.462	3.951
0.35-0.40	65	1.6045	0.4983	79.067	4.449
0.30-0.35	26	0.6418	0.2872	79.709	4.737
0.25-0.30	147	3.6287	2.5207	83.337	7.257
0.20-0.25	75	1.8514	1.7527	85.189	9.010
0.15-0.20	82	2.0242	2.2393	87.213	11.249
0.10-0.15	180	4.4433	6.4248	91.656	17.674
0.05-0.10	142	3.5053	10.3816	95.162	28.056
0.00-0.05	196	4.8383	71.9444	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Stepwise Summary

Node id = Reg4
 Node label = Regression Stepwise
 Meta path = lds6 => Part3 => Reg4
 Notes =

Node=Regression Stepwise 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SISStay	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 Stepwise Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Stepwise Model Fit Statistics

Target=score2 Target Label=score2

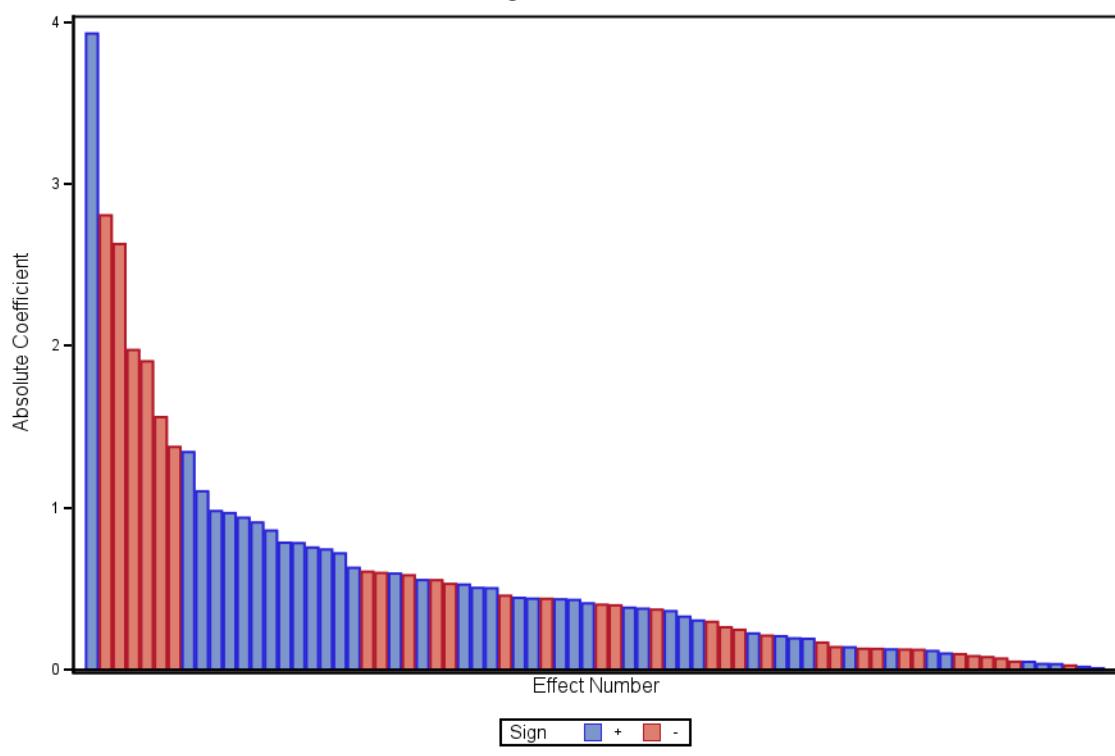
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47655.18	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.38	0.37	0.38
Degrees of Freedom for Error	63257.00	.	.
Model Degrees of Freedom	74.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47507.18	15809.79	15985.85
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	74.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48325.34	.	.
Sum of Squared Errors	14676.22	4901.21	4935.32
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Stepwise
Regression Model Effects



Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.93069	7.4878	7.005E-14	38	month	5	-0.40176	-9.5391	0.00000
2	state	PENNSYLVANIA	-2.80739	-9.0461	1.4817E-19	39	year	2008	-0.39781	-7.8916	0.00000
3	state	NEW_YORK	-2.63003	-8.4270	3.5472E-17	40	state	ARIZONA	0.38296	4.3978	0.00001
4	state	WEST_VIRGINIA	-1.97548	-10.5006	8.5824E-26	41	state	IOWA	0.37705	4.7887	0.00000
5	state	OHIO	-1.90538	-9.0940	9.5421E-20	42	state	KENTUCKY	-0.37126	-3.5414	0.00040
6	year	2009	-1.56078	-20.7426	1.4284E-95	43	state	KANSAS	0.36193	5.2913	0.00000
7	year	2010	-1.37643	-19.5049	9.9782E-85	44	month	2	0.32778	6.6886	0.00000
8	state	GEORGIA	1.34481	18.0441	8.7737E-73	45	month	11	0.30376	7.0183	0.00000
9	state	OREGON	1.10243	15.0928	1.8066E-51	46	state	ILLINOIS	-0.29568	-2.6659	0.00768

SAS Enterprise Miner Report
Node=Regression Stepwise
Regression Model Effects

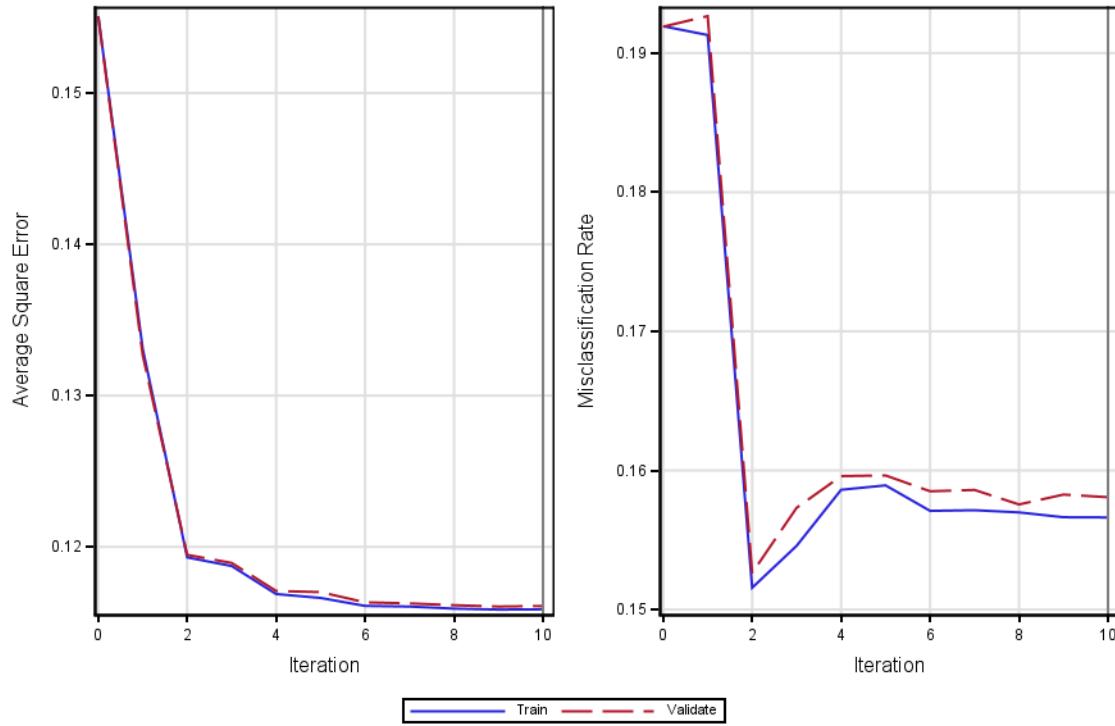
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.98035	16.0828	3.3682E-58	47	year	2001	-0.26239	-5.3224	0.00000
11	year	2002	0.96769	24.1262	1.328E-128	48	month	8	-0.24668	-4.8958	0.00000
12	year	2012	0.93902	23.4907	5.076E-122	49	month	10	0.22398	6.1034	0.00000
13	year	2003	0.90967	22.4813	6.327E-112	50	year	2000	-0.21035	-4.3961	0.00001
14	state	CALIFORNIA	0.85956	12.4163	2.1331E-35	51	state	TENNESSEE	0.20696	2.2525	0.02429
15	state	SOUTH_DAKOTA	0.78478	12.5508	3.9339E-36	52	state	MISSISSIPPI	0.19375	2.0466	0.04070
16	state	OKLAHOMA	0.78220	12.0372	2.2641E-33	53	year	2014	0.19110	4.2207	0.00002
17	year	2013	0.75490	18.4437	5.8582E-76	54	state	MAINE	-0.16757	-1.4867	0.13710
18	state	LOUISIANA	0.74257	8.7323	2.4961E-18	55	month	4	-0.13968	-3.5294	0.00042
19	year	2004	0.71874	17.2344	1.4666E-66	56	TS		0.13843	10.6895	0.00000
20	state	SOUTH_CAROLINA	0.62961	7.2595	3.8855E-13	57	year	2005	-0.12934	-2.6982	0.00697
21	state	NORTH_DAKOTA	-0.60545	-6.0663	.0000000001	58	year	2006	-0.12859	-2.7250	0.00643
22	state	INDIANA	-0.59785	-4.9559	.000000720	59	WS10M		0.12537	3.6541	0.00026
23	year	2007	0.59380	14.2034	8.7285E-46	60	WS50M		-0.12416	-4.7999	0.00000
24	state	VIRGINIA	-0.58347	-5.2776	.000000131	61	state	COLORADO	-0.12280	-1.3436	0.17907
25	state	ARKANSAS	0.55410	6.4861	8.8064E-11	62	year	2011	0.11584	2.5553	0.01061
26	state	MISSOURI	-0.55352	-4.8139	.000001480	63	month	3	0.09984	2.3752	0.01754
27	month	6	-0.53013	-10.5960	3.1109E-26	64	month	9	-0.09614	-2.2688	0.02328
28	state	ALABAMA	0.52598	5.9038	.000000004	65	state	NEW_MEXICO	-0.08382	-0.8951	0.37076
29	state	NEVADA	0.50564	5.6451	.000000017	66	T2MDEW		-0.07795	-26.1647	0.00000
30	state	MINNESOTA	0.50364	6.1504	7.729E-10	67	PS		-0.06891	-12.2810	0.00000
31	state	MICHIGAN	-0.45714	-3.8662	.000110522	68	T2M		-0.04959	-3.7048	0.00021
32	state	FLORIDA	0.44385	4.0776	.000045502	69	state	UTAH	0.04854	0.5630	0.57347
33	state	MONTANA	0.43896	5.6027	.000000021	70	state	WASHINGTON	0.03581	0.4497	0.65293
34	month	7	-0.43809	-8.2228	1.9879E-16	71	state	WISCONSIN	0.03460	0.3599	0.71890
35	month	1	0.43473	8.5036	1.8384E-17	72	state	TEXAS	-0.02582	-0.3553	0.72240
36	state	IDAHO	0.43124	4.8940	.000000988	73	year	2015	0.01744	0.3718	0.71004
37	state	NORTH_CAROLINA	0.40993	4.4222	.000009769	74	PRECTOT		0.00910	3.4787	0.00050

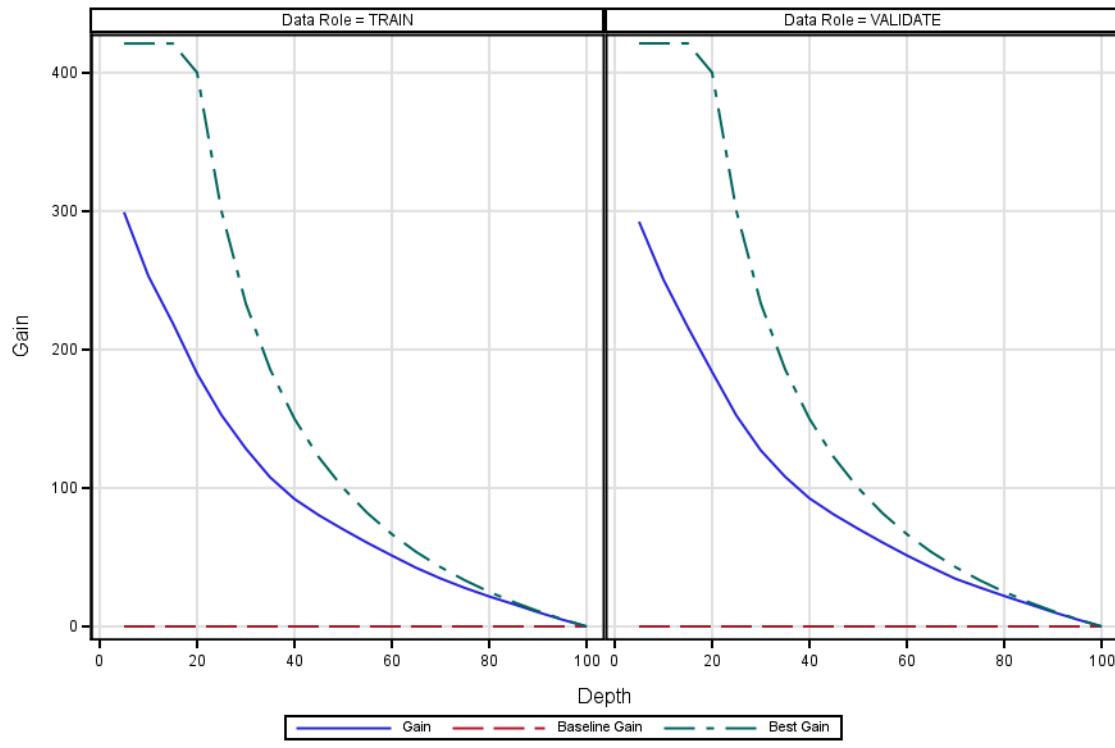
SAS Enterprise Miner Report
Node=Regression Stepwise
Model Iteration Plots

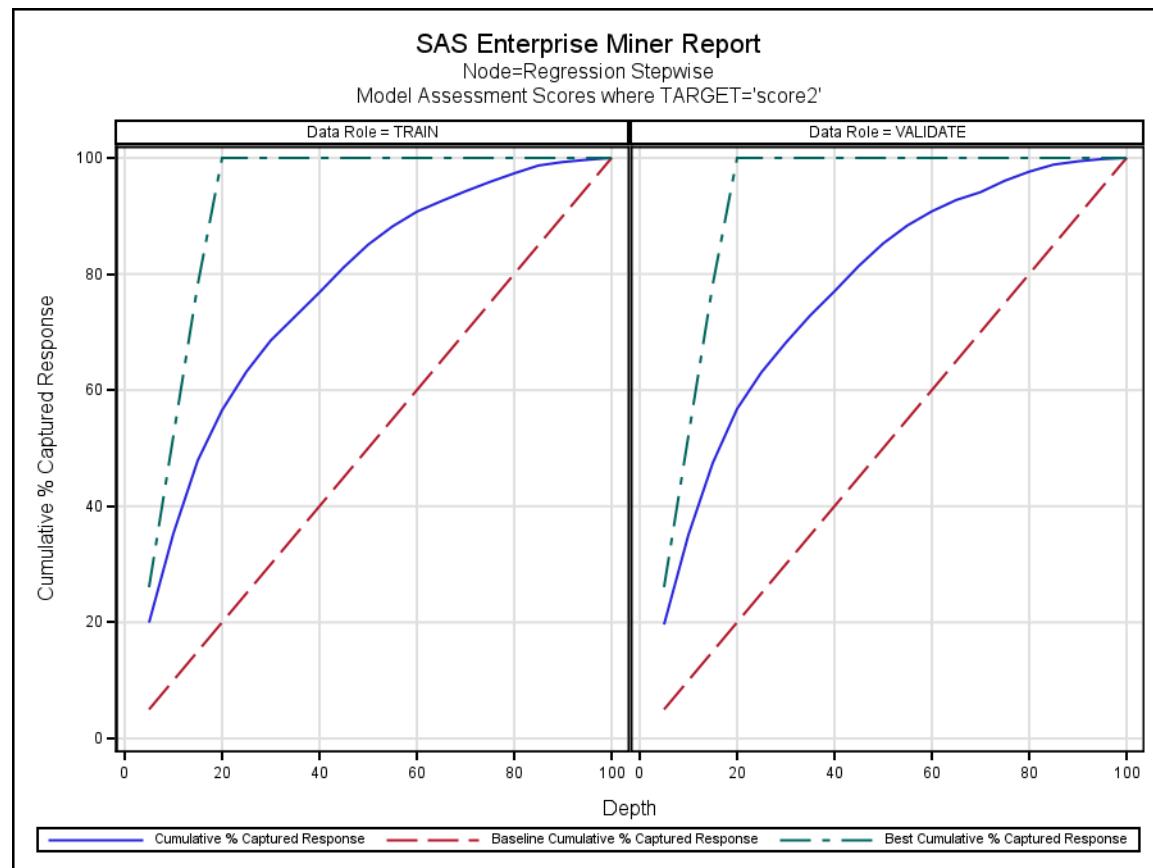
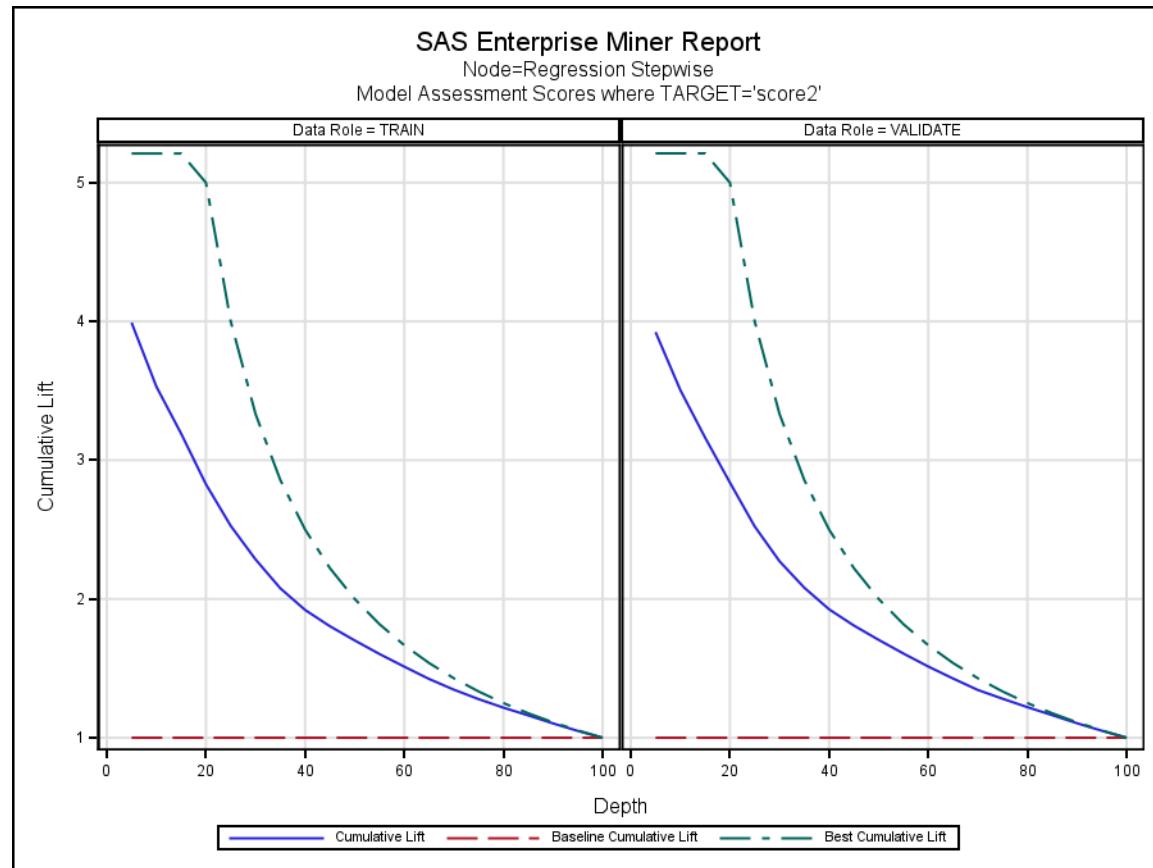
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SAS Enterprise Miner Report
Node=Regression Stepwise
Model Iteration Plots

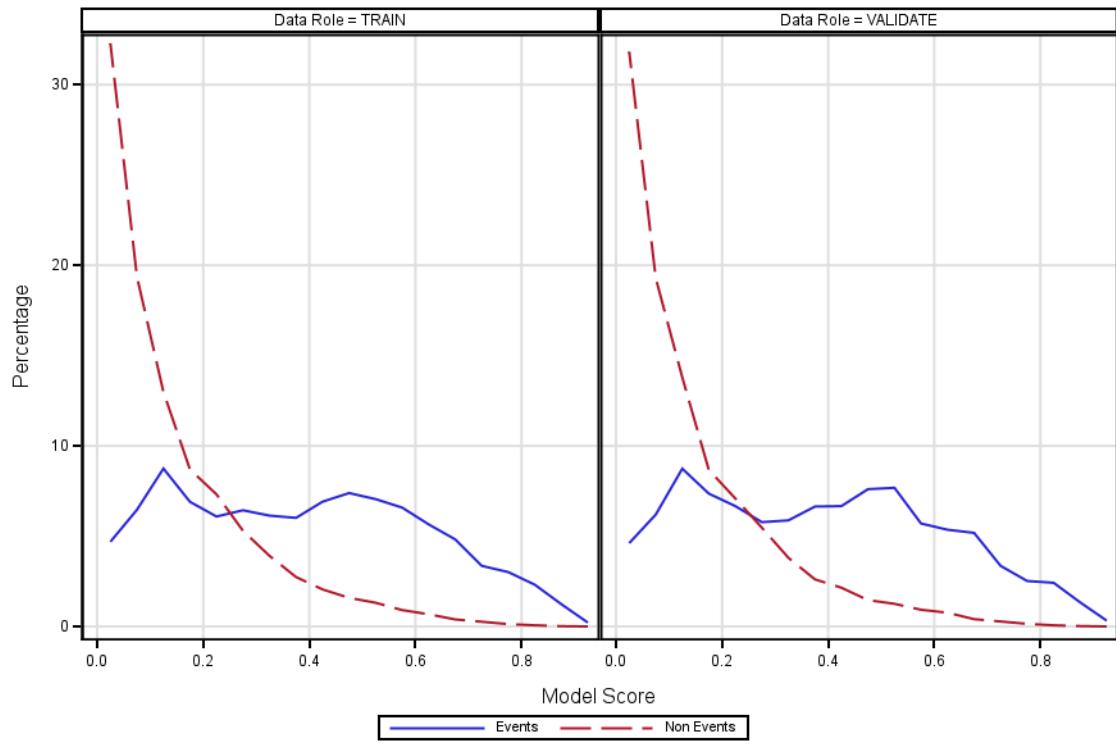


SAS Enterprise Miner Report
Node=Regression Stepwise
Model Assessment Scores where TARGET='score2'

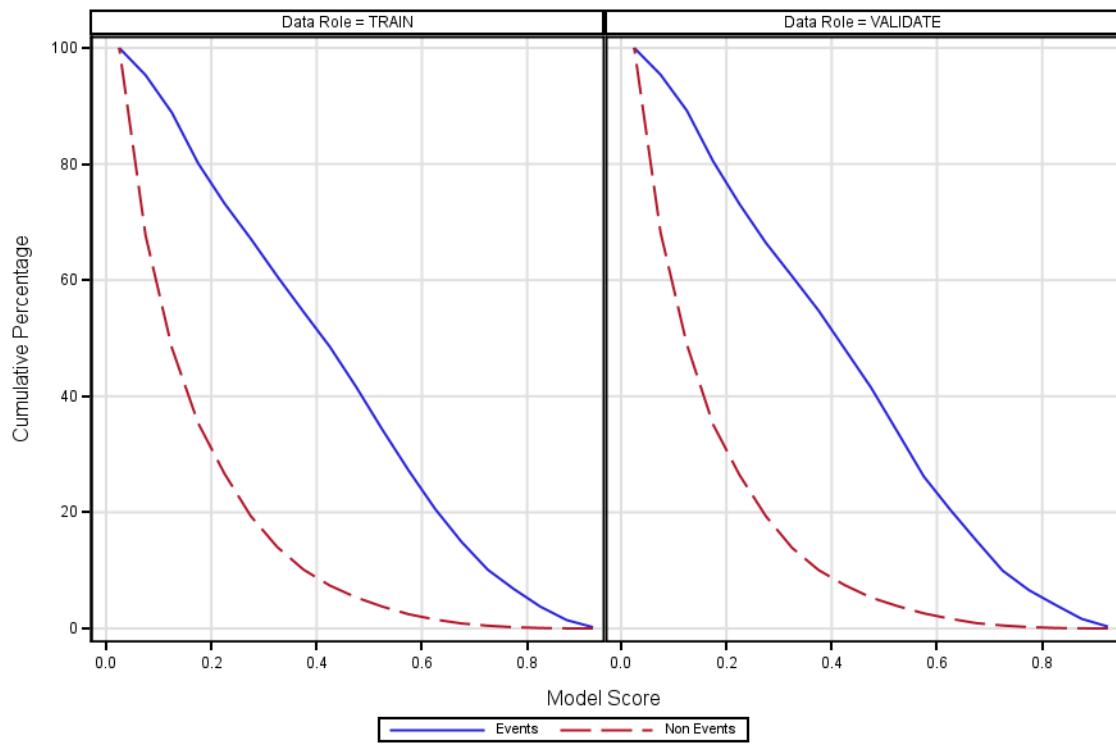




SAS Enterprise Miner Report
 Node=Regression Stepwise
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Stepwise
 Score Distributions where TARGET='score2'



Node=Regression Stepwise
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	150	1.23406	0.0176	1.448	0.018
0.80-0.85	281	2.31181	0.0664	3.760	0.084
0.75-0.80	366	3.01111	0.1309	6.771	0.215
0.70-0.75	408	3.35664	0.2618	10.128	0.477
0.65-0.70	586	4.82106	0.3889	14.949	0.866
0.60-0.65	687	5.65200	0.6761	20.601	1.542
0.55-0.60	800	6.58165	0.9067	27.182	2.448
0.50-0.55	857	7.05060	1.3131	34.233	3.762
0.45-0.50	898	7.38791	1.5847	41.621	5.346
0.40-0.45	840	6.91074	2.0517	48.531	7.398
0.35-0.40	731	6.01399	2.7376	54.545	10.136
0.30-0.35	746	6.13739	3.9081	60.683	14.044
0.25-0.30	782	6.43357	5.2974	67.116	19.341
0.20-0.25	740	6.08803	7.3159	73.204	26.657
0.15-0.20	839	6.90251	8.6955	80.107	35.353
0.10-0.15	1063	8.74537	12.9846	88.852	48.337
0.05-0.10	785	6.45825	19.3724	95.311	67.709
0.00-0.05	570	4.68943	32.2905	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	13	0.32091	0.0000	0.321	0.000
0.85-0.90	54	1.33300	0.0234	1.654	0.023
0.80-0.85	98	2.41916	0.0645	4.073	0.088
0.75-0.80	102	2.51790	0.1466	6.591	0.234
0.70-0.75	136	3.35720	0.2755	9.948	0.510
0.65-0.70	210	5.18391	0.4045	15.132	0.914
0.60-0.65	217	5.35670	0.7621	20.489	1.677
0.55-0.60	231	5.70230	0.9262	26.191	2.603
0.50-0.55	311	7.67712	1.2545	33.868	3.857
0.45-0.50	308	7.60306	1.4596	41.471	5.317
0.40-0.45	270	6.66502	2.1455	48.136	7.462
0.35-0.40	269	6.64034	2.6086	54.777	10.071
0.30-0.35	238	5.87509	3.8044	60.652	13.875
0.25-0.30	234	5.77635	5.4693	66.428	19.345
0.20-0.25	270	6.66502	7.0872	73.093	26.432
0.15-0.20	298	7.35621	8.6699	80.449	35.102
0.10-0.15	354	8.73858	13.7933	89.188	48.895
0.05-0.10	251	6.19600	19.2860	95.384	68.181
0.00-0.05	187	4.61614	31.8190	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Backward Summary

Node id = Reg3
 Node label = Regression Backward
 Meta path = lds6 => Part3 => Reg3
 Notes =

Node=Regression Backward 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SISStay	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	BACKWARD	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Backward Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Backward Model Fit Statistics

Target=score2 Target Label=score2

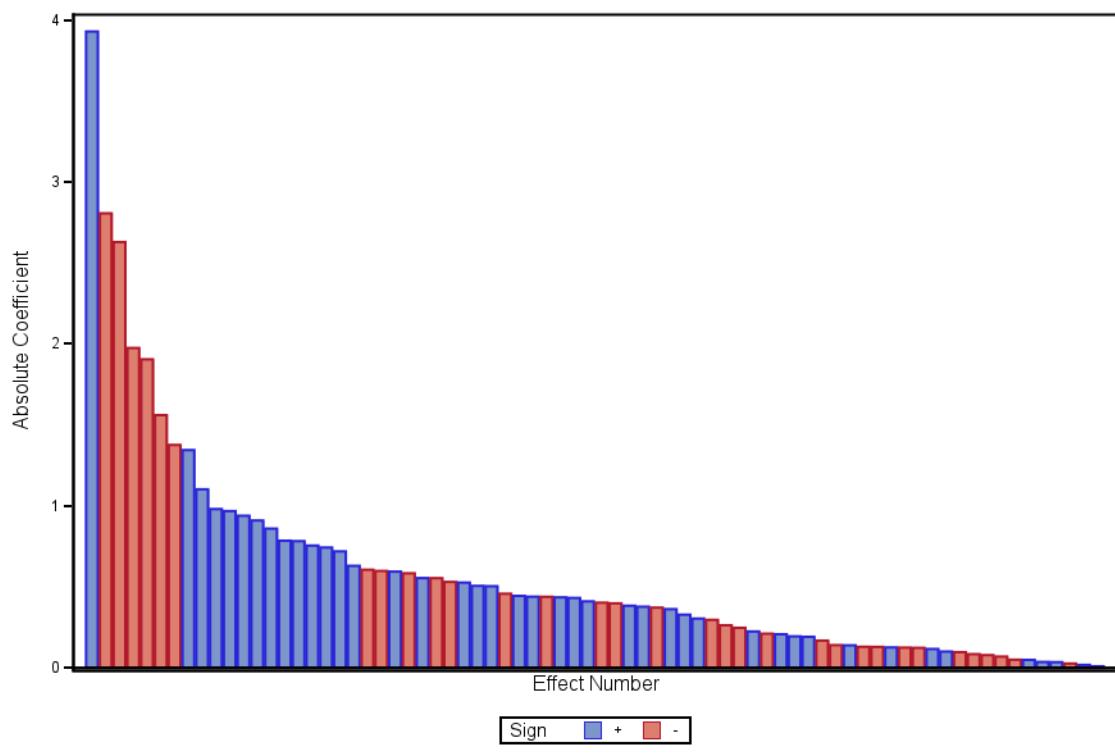
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47655.18	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.38	0.37	0.38
Degrees of Freedom for Error	63257.00	.	.
Model Degrees of Freedom	74.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47507.18	15809.79	15985.85
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	74.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48325.34	.	.
Sum of Squared Errors	14676.22	4901.21	4935.32
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Backward
Regression Model Effects



Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.93069	7.4878	7.005E-14	38	month	5	-0.40176	-9.5391	0.00000
2	state	PENNSYLVANIA	-2.80739	-9.0461	1.4817E-19	39	year	2008	-0.39781	-7.8916	0.00000
3	state	NEW_YORK	-2.63003	-8.4270	3.5472E-17	40	state	ARIZONA	0.38296	4.3978	0.00001
4	state	WEST_VIRGINIA	-1.97548	-10.5006	8.5824E-26	41	state	IOWA	0.37705	4.7887	0.00000
5	state	OHIO	-1.90538	-9.0940	9.5421E-20	42	state	KENTUCKY	-0.37126	-3.5414	0.00040
6	year	2009	-1.56078	-20.7426	1.4284E-95	43	state	KANSAS	0.36193	5.2913	0.00000
7	year	2010	-1.37643	-19.5049	9.9782E-85	44	month	2	0.32778	6.6886	0.00000
8	state	GEORGIA	1.34481	18.0441	8.7737E-73	45	month	11	0.30376	7.0183	0.00000
9	state	OREGON	1.10243	15.0928	1.8066E-51	46	state	ILLINOIS	-0.29568	-2.6659	0.00768

SAS Enterprise Miner Report
Node=Regression Backward
Regression Model Effects

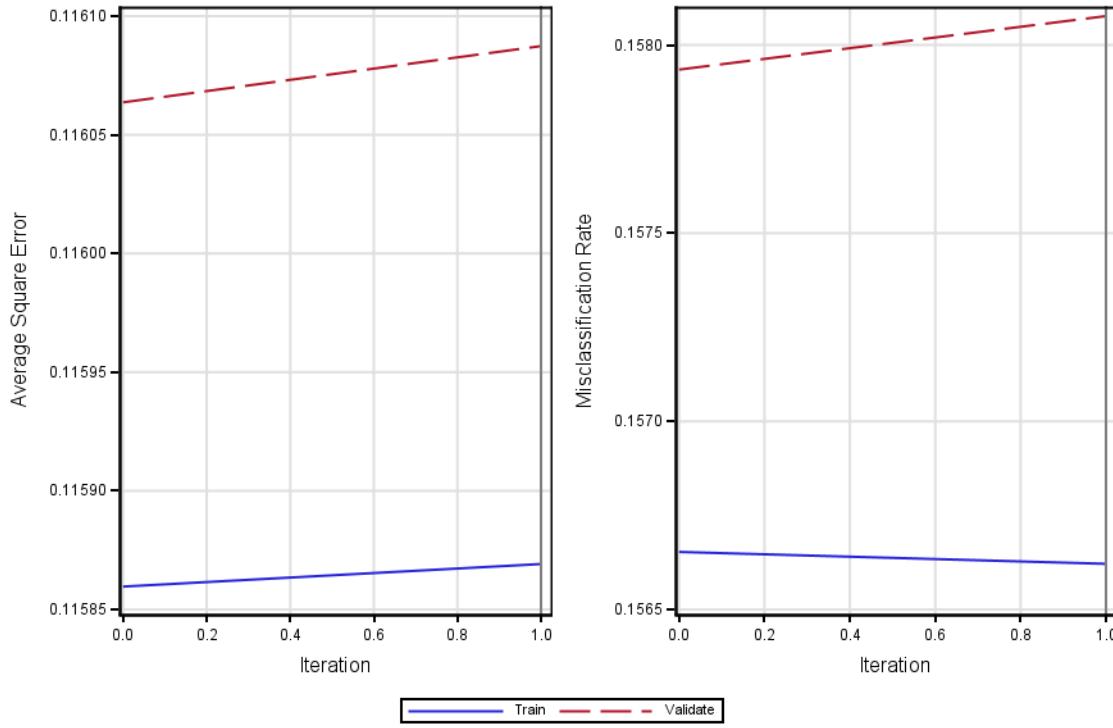
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.98035	16.0828	3.3682E-58	47	year	2001	-0.26239	-5.3224	0.00000
11	year	2002	0.96769	24.1262	1.328E-128	48	month	8	-0.24668	-4.8958	0.00000
12	year	2012	0.93902	23.4907	5.076E-122	49	month	10	0.22398	6.1034	0.00000
13	year	2003	0.90967	22.4813	6.327E-112	50	year	2000	-0.21035	-4.3961	0.00001
14	state	CALIFORNIA	0.85956	12.4163	2.1331E-35	51	state	TENNESSEE	0.20696	2.2525	0.02429
15	state	SOUTH_DAKOTA	0.78478	12.5508	3.9339E-36	52	state	MISSISSIPPI	0.19375	2.0466	0.04070
16	state	OKLAHOMA	0.78220	12.0372	2.2641E-33	53	year	2014	0.19110	4.2207	0.00002
17	year	2013	0.75490	18.4437	5.8582E-76	54	state	MAINE	-0.16757	-1.4867	0.13710
18	state	LOUISIANA	0.74257	8.7323	2.4961E-18	55	month	4	-0.13968	-3.5294	0.00042
19	year	2004	0.71874	17.2344	1.4666E-66	56	TS		0.13843	10.6895	0.00000
20	state	SOUTH_CAROLINA	0.62961	7.2595	3.8855E-13	57	year	2005	-0.12934	-2.6982	0.00697
21	state	NORTH_DAKOTA	-0.60545	-6.0663	.0000000001	58	year	2006	-0.12859	-2.7250	0.00643
22	state	INDIANA	-0.59785	-4.9559	.000000720	59	WS10M		0.12537	3.6541	0.00026
23	year	2007	0.59380	14.2034	8.7285E-46	60	WS50M		-0.12416	-4.7999	0.00000
24	state	VIRGINIA	-0.58347	-5.2776	.000000131	61	state	COLORADO	-0.12280	-1.3436	0.17907
25	state	ARKANSAS	0.55410	6.4861	8.8064E-11	62	year	2011	0.11584	2.5553	0.01061
26	state	MISSOURI	-0.55352	-4.8139	.000001480	63	month	3	0.09984	2.3752	0.01754
27	month	6	-0.53013	-10.5960	3.1109E-26	64	month	9	-0.09614	-2.2688	0.02328
28	state	ALABAMA	0.52598	5.9038	.000000004	65	state	NEW_MEXICO	-0.08382	-0.8951	0.37076
29	state	NEVADA	0.50564	5.6451	.000000017	66	T2MDEW		-0.07795	-26.1647	0.00000
30	state	MINNESOTA	0.50364	6.1504	7.729E-10	67	PS		-0.06891	-12.2810	0.00000
31	state	MICHIGAN	-0.45714	-3.8662	.000110522	68	T2M		-0.04959	-3.7048	0.00021
32	state	FLORIDA	0.44385	4.0776	.000045502	69	state	UTAH	0.04854	0.5630	0.57347
33	state	MONTANA	0.43896	5.6027	.000000021	70	state	WASHINGTON	0.03581	0.4497	0.65293
34	month	7	-0.43809	-8.2228	1.9879E-16	71	state	WISCONSIN	0.03460	0.3599	0.71890
35	month	1	0.43473	8.5036	1.8384E-17	72	state	TEXAS	-0.02582	-0.3553	0.72240
36	state	IDAHO	0.43124	4.8940	.000000988	73	year	2015	0.01744	0.3718	0.71004
37	state	NORTH_CAROLINA	0.40993	4.4222	.000009769	74	PRECTOT		0.00910	3.4787	0.00050

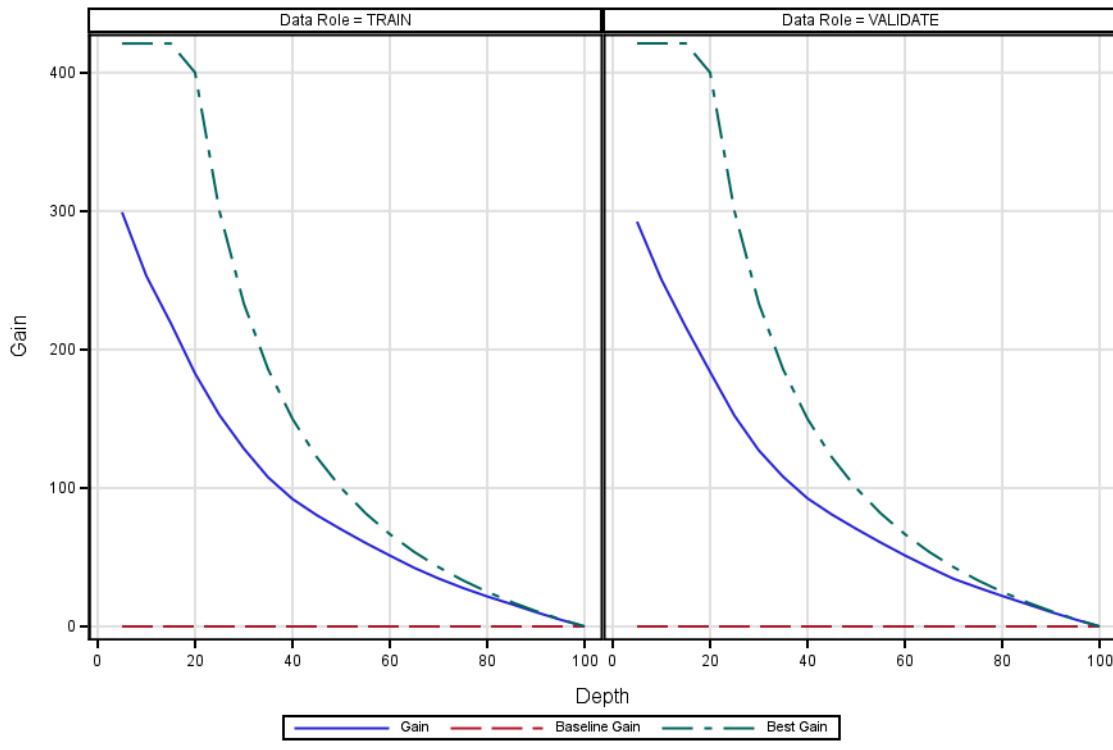
SAS Enterprise Miner Report
Node=Regression Backward
Model Iteration Plots

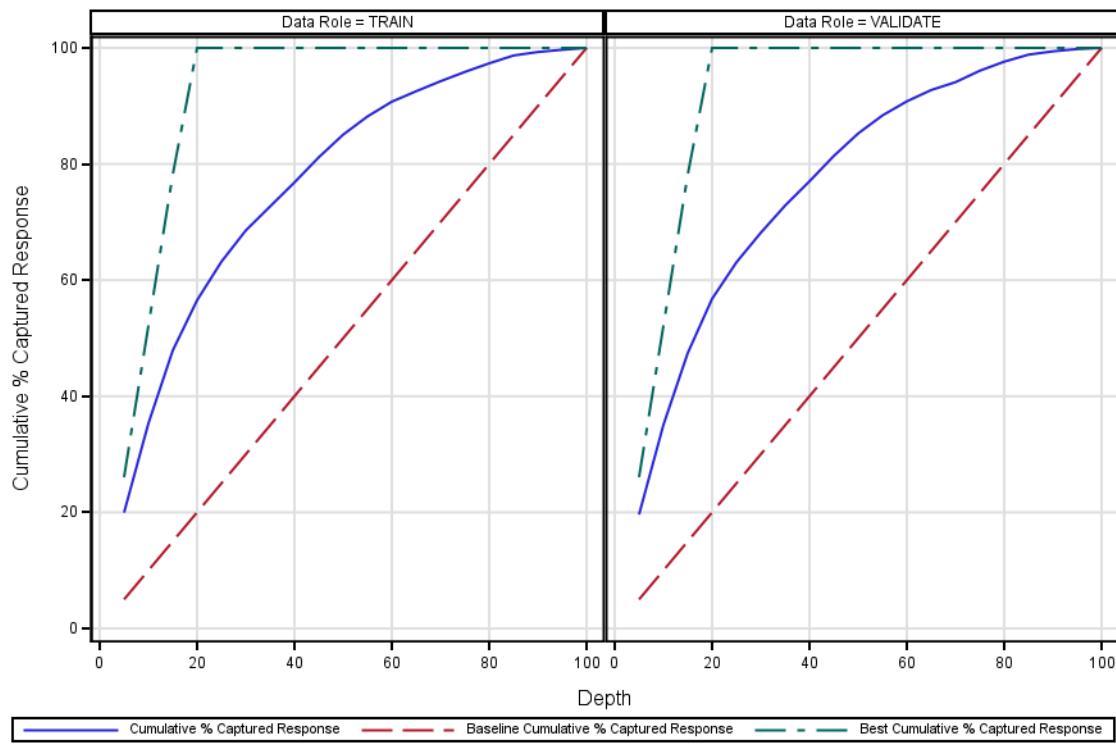
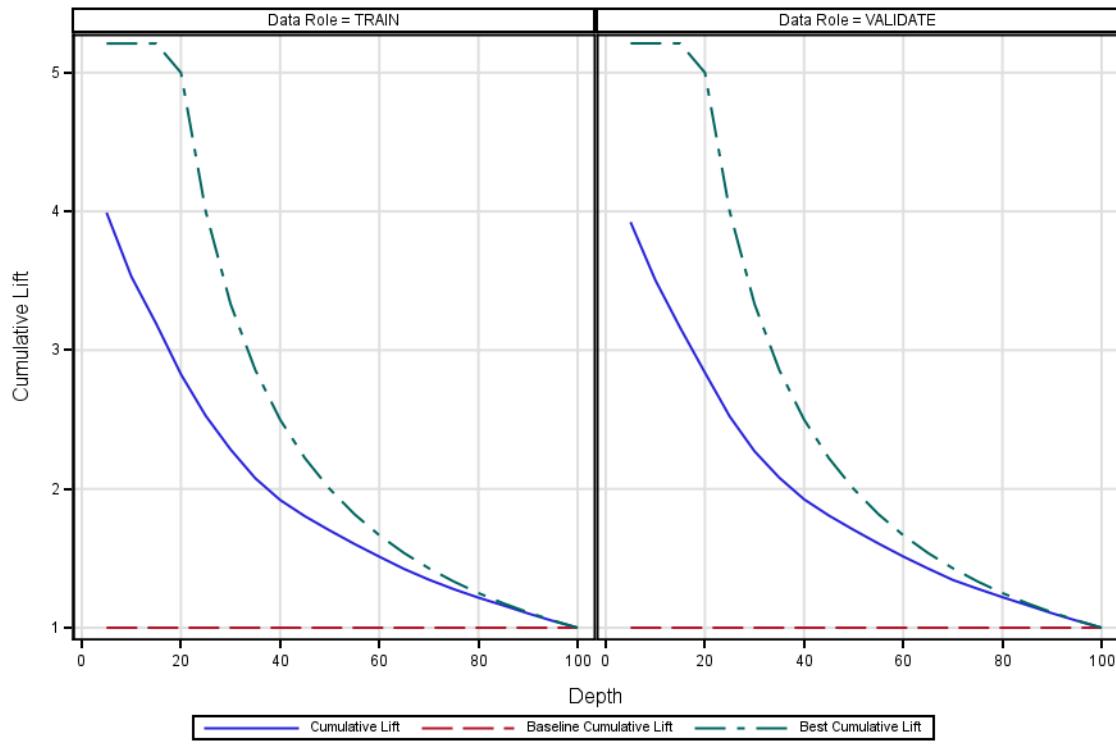
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SAS Enterprise Miner Report
Node=Regression Backward
Model Iteration Plots

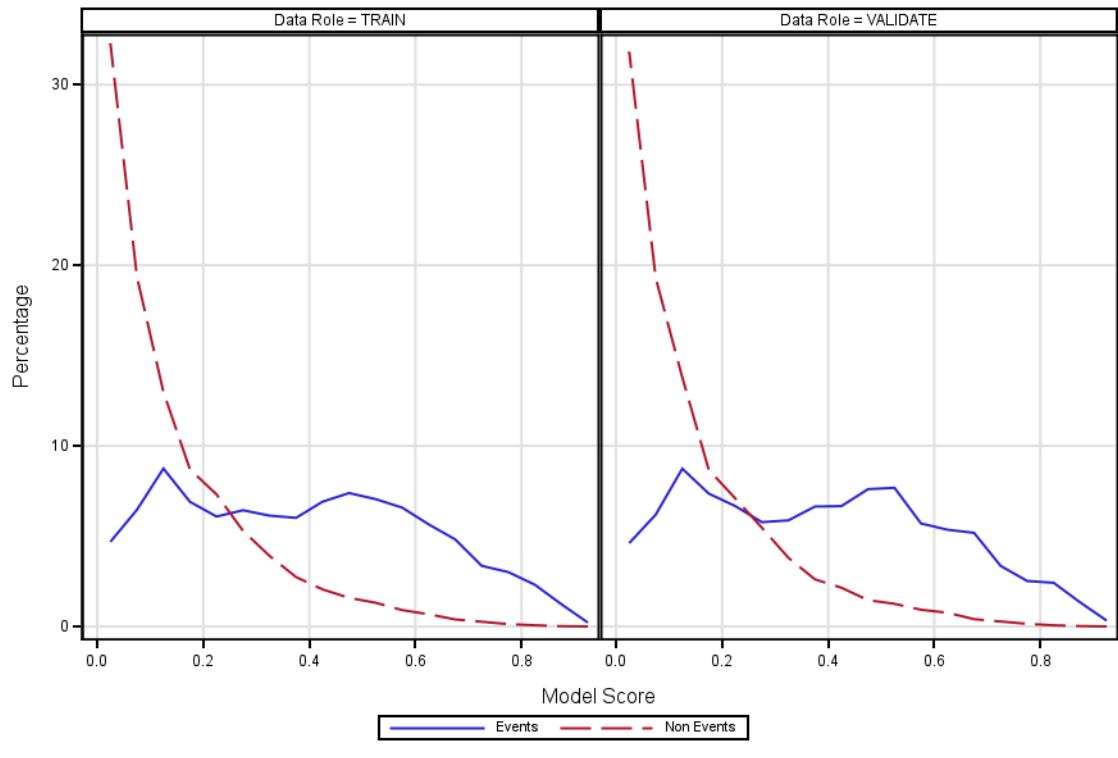


SAS Enterprise Miner Report
Node=Regression Backward
Model Assessment Scores where TARGET='score2'

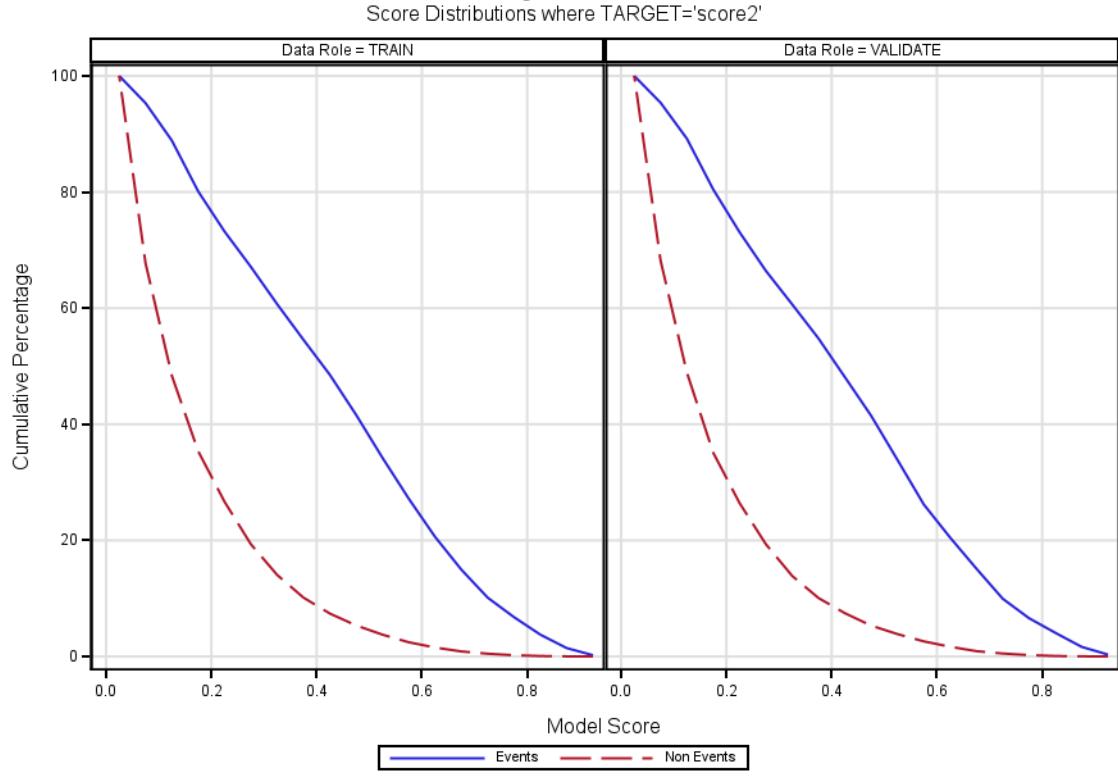




SAS Enterprise Miner Report
 Node=Regression Backward
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Backward
 Score Distributions where TARGET='score2'



Node=Regression Backward
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	150	1.23406	0.0176	1.448	0.018
0.80-0.85	281	2.31181	0.0664	3.760	0.084
0.75-0.80	366	3.01111	0.1309	6.771	0.215
0.70-0.75	408	3.35664	0.2618	10.128	0.477
0.65-0.70	586	4.82106	0.3889	14.949	0.866
0.60-0.65	687	5.65200	0.6761	20.601	1.542
0.55-0.60	800	6.58165	0.9067	27.182	2.448
0.50-0.55	857	7.05060	1.3131	34.233	3.762
0.45-0.50	898	7.38791	1.5847	41.621	5.346
0.40-0.45	840	6.91074	2.0517	48.531	7.398
0.35-0.40	731	6.01399	2.7376	54.545	10.136
0.30-0.35	746	6.13739	3.9081	60.683	14.044
0.25-0.30	782	6.43357	5.2974	67.116	19.341
0.20-0.25	740	6.08803	7.3159	73.204	26.657
0.15-0.20	839	6.90251	8.6955	80.107	35.353
0.10-0.15	1063	8.74537	12.9846	88.852	48.337
0.05-0.10	785	6.45825	19.3724	95.311	67.709
0.00-0.05	570	4.68943	32.2905	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	13	0.32091	0.0000	0.321	0.000
0.85-0.90	54	1.33300	0.0234	1.654	0.023
0.80-0.85	98	2.41916	0.0645	4.073	0.088
0.75-0.80	102	2.51790	0.1466	6.591	0.234
0.70-0.75	136	3.35720	0.2755	9.948	0.510
0.65-0.70	210	5.18391	0.4045	15.132	0.914
0.60-0.65	217	5.35670	0.7621	20.489	1.677
0.55-0.60	231	5.70230	0.9262	26.191	2.603
0.50-0.55	311	7.67712	1.2545	33.868	3.857
0.45-0.50	308	7.60306	1.4596	41.471	5.317
0.40-0.45	270	6.66502	2.1455	48.136	7.462
0.35-0.40	269	6.64034	2.6086	54.777	10.071
0.30-0.35	238	5.87509	3.8044	60.652	13.875
0.25-0.30	234	5.77635	5.4693	66.428	19.345
0.20-0.25	270	6.66502	7.0872	73.093	26.432
0.15-0.20	298	7.35621	8.6699	80.449	35.102
0.10-0.15	354	8.73858	13.7933	89.188	48.895
0.05-0.10	251	6.19600	19.2860	95.384	68.181
0.00-0.05	187	4.61614	31.8190	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Forward Summary

Node id = Reg2
 Node label = Regression Forward
 Meta path = lds6 => Part3 => Reg2
 Notes =

Node=Regression Forward 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SIStay	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	FORWARD	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Forward Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Forward Model Fit Statistics

Target=score2 Target Label=score2

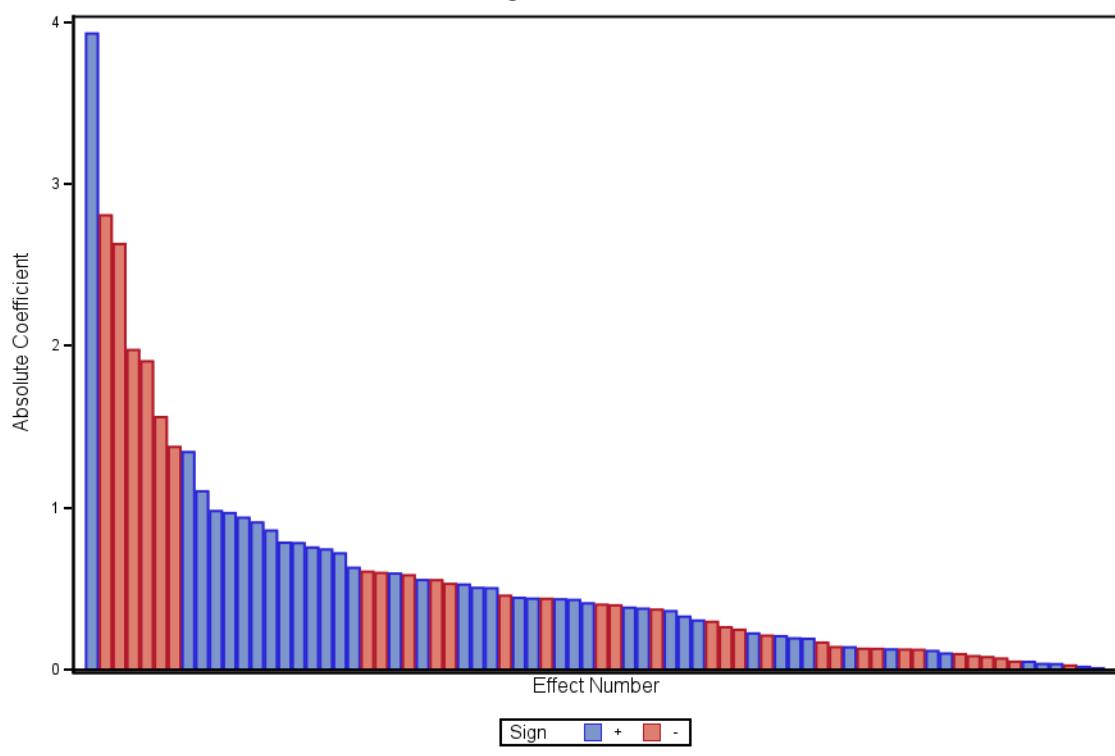
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47655.18	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.38	0.37	0.38
Degrees of Freedom for Error	63257.00	.	.
Model Degrees of Freedom	74.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47507.18	15809.79	15985.85
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	74.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48325.34	.	.
Sum of Squared Errors	14676.22	4901.21	4935.32
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Forward
Regression Model Effects



Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.93069	7.4878	7.005E-14	38	month	5	-0.40176	-9.5391	0.00000
2	state	PENNSYLVANIA	-2.80739	-9.0461	1.4817E-19	39	year	2008	-0.39781	-7.8916	0.00000
3	state	NEW_YORK	-2.63003	-8.4270	3.5472E-17	40	state	ARIZONA	0.38296	4.3978	0.00001
4	state	WEST_VIRGINIA	-1.97548	-10.5006	8.5824E-26	41	state	IOWA	0.37705	4.7887	0.00000
5	state	OHIO	-1.90538	-9.0940	9.5421E-20	42	state	KENTUCKY	-0.37126	-3.5414	0.00040
6	year	2009	-1.56078	-20.7426	1.4284E-95	43	state	KANSAS	0.36193	5.2913	0.00000
7	year	2010	-1.37643	-19.5049	9.9782E-85	44	month	2	0.32778	6.6886	0.00000
8	state	GEORGIA	1.34481	18.0441	8.7737E-73	45	month	11	0.30376	7.0183	0.00000
9	state	OREGON	1.10243	15.0928	1.8066E-51	46	state	ILLINOIS	-0.29568	-2.6659	0.00768

SAS Enterprise Miner Report
Node=Regression Forward
Regression Model Effects

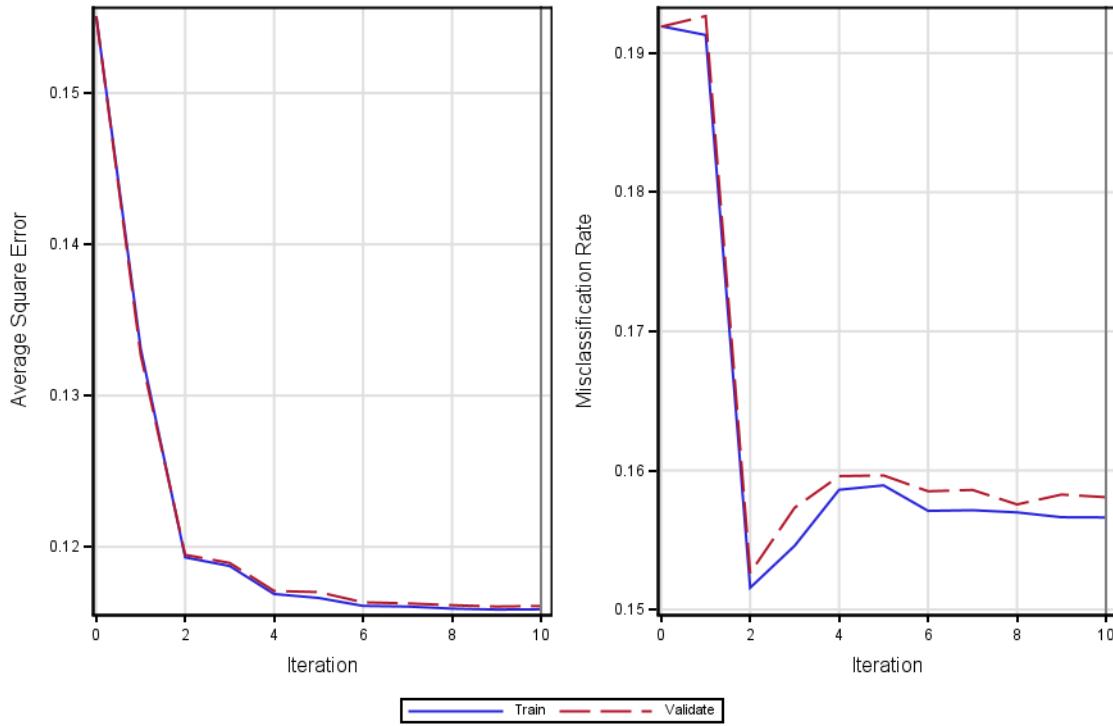
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.98035	16.0828	3.3682E-58	47	year	2001	-0.26239	-5.3224	0.00000
11	year	2002	0.96769	24.1262	1.328E-128	48	month	8	-0.24668	-4.8958	0.00000
12	year	2012	0.93902	23.4907	5.076E-122	49	month	10	0.22398	6.1034	0.00000
13	year	2003	0.90967	22.4813	6.327E-112	50	year	2000	-0.21035	-4.3961	0.00001
14	state	CALIFORNIA	0.85956	12.4163	2.1331E-35	51	state	TENNESSEE	0.20696	2.2525	0.02429
15	state	SOUTH_DAKOTA	0.78478	12.5508	3.9339E-36	52	state	MISSISSIPPI	0.19375	2.0466	0.04070
16	state	OKLAHOMA	0.78220	12.0372	2.2641E-33	53	year	2014	0.19110	4.2207	0.00002
17	year	2013	0.75490	18.4437	5.8582E-76	54	state	MAINE	-0.16757	-1.4867	0.13710
18	state	LOUISIANA	0.74257	8.7323	2.4961E-18	55	month	4	-0.13968	-3.5294	0.00042
19	year	2004	0.71874	17.2344	1.4666E-66	56	TS		0.13843	10.6895	0.00000
20	state	SOUTH_CAROLINA	0.62961	7.2595	3.8855E-13	57	year	2005	-0.12934	-2.6982	0.00697
21	state	NORTH_DAKOTA	-0.60545	-6.0663	.0000000001	58	year	2006	-0.12859	-2.7250	0.00643
22	state	INDIANA	-0.59785	-4.9559	.000000720	59	WS10M		0.12537	3.6541	0.00026
23	year	2007	0.59380	14.2034	8.7285E-46	60	WS50M		-0.12416	-4.7999	0.00000
24	state	VIRGINIA	-0.58347	-5.2776	.000000131	61	state	COLORADO	-0.12280	-1.3436	0.17907
25	state	ARKANSAS	0.55410	6.4861	8.8064E-11	62	year	2011	0.11584	2.5553	0.01061
26	state	MISSOURI	-0.55352	-4.8139	.000001480	63	month	3	0.09984	2.3752	0.01754
27	month	6	-0.53013	-10.5960	3.1109E-26	64	month	9	-0.09614	-2.2688	0.02328
28	state	ALABAMA	0.52598	5.9038	.000000004	65	state	NEW_MEXICO	-0.08382	-0.8951	0.37076
29	state	NEVADA	0.50564	5.6451	.000000017	66	T2MDEW		-0.07795	-26.1647	0.00000
30	state	MINNESOTA	0.50364	6.1504	7.729E-10	67	PS		-0.06891	-12.2810	0.00000
31	state	MICHIGAN	-0.45714	-3.8662	.000110522	68	T2M		-0.04959	-3.7048	0.00021
32	state	FLORIDA	0.44385	4.0776	.000045502	69	state	UTAH	0.04854	0.5630	0.57347
33	state	MONTANA	0.43896	5.6027	.000000021	70	state	WASHINGTON	0.03581	0.4497	0.65293
34	month	7	-0.43809	-8.2228	1.9879E-16	71	state	WISCONSIN	0.03460	0.3599	0.71890
35	month	1	0.43473	8.5036	1.8384E-17	72	state	TEXAS	-0.02582	-0.3553	0.72240
36	state	IDAHO	0.43124	4.8940	.000000988	73	year	2015	0.01744	0.3718	0.71004
37	state	NORTH_CAROLINA	0.40993	4.4222	.000009769	74	PRECTOT		0.00910	3.4787	0.00050

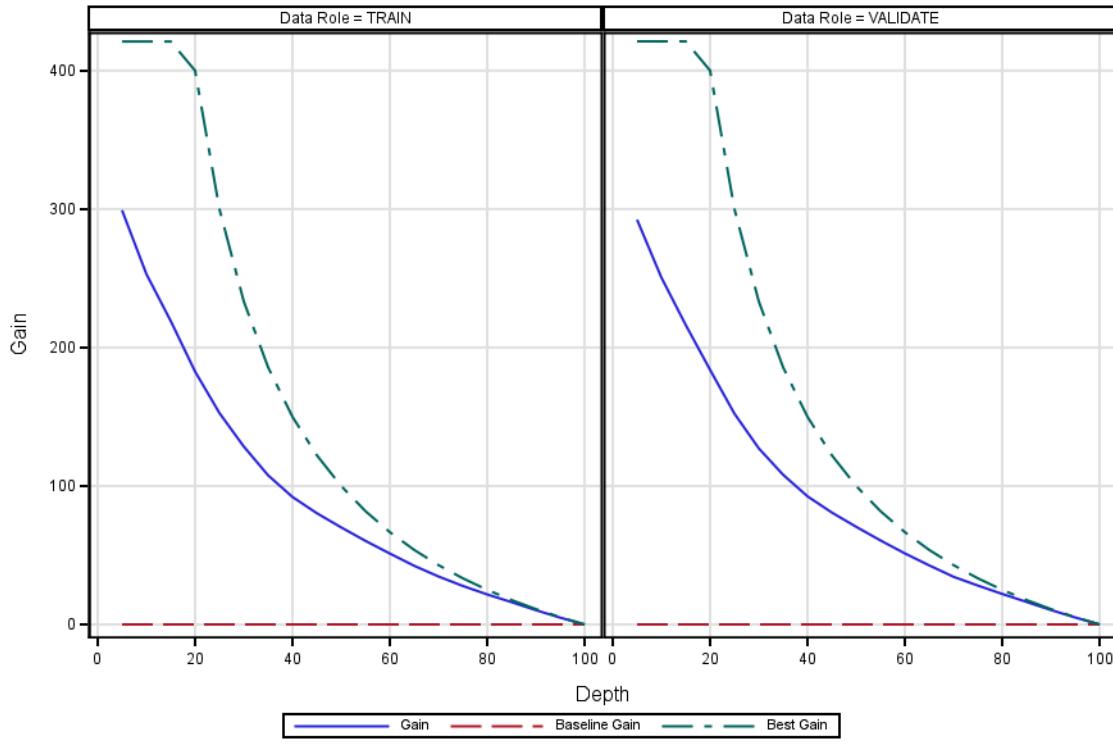
SAS Enterprise Miner Report
Node=Regression Forward
Model Iteration Plots

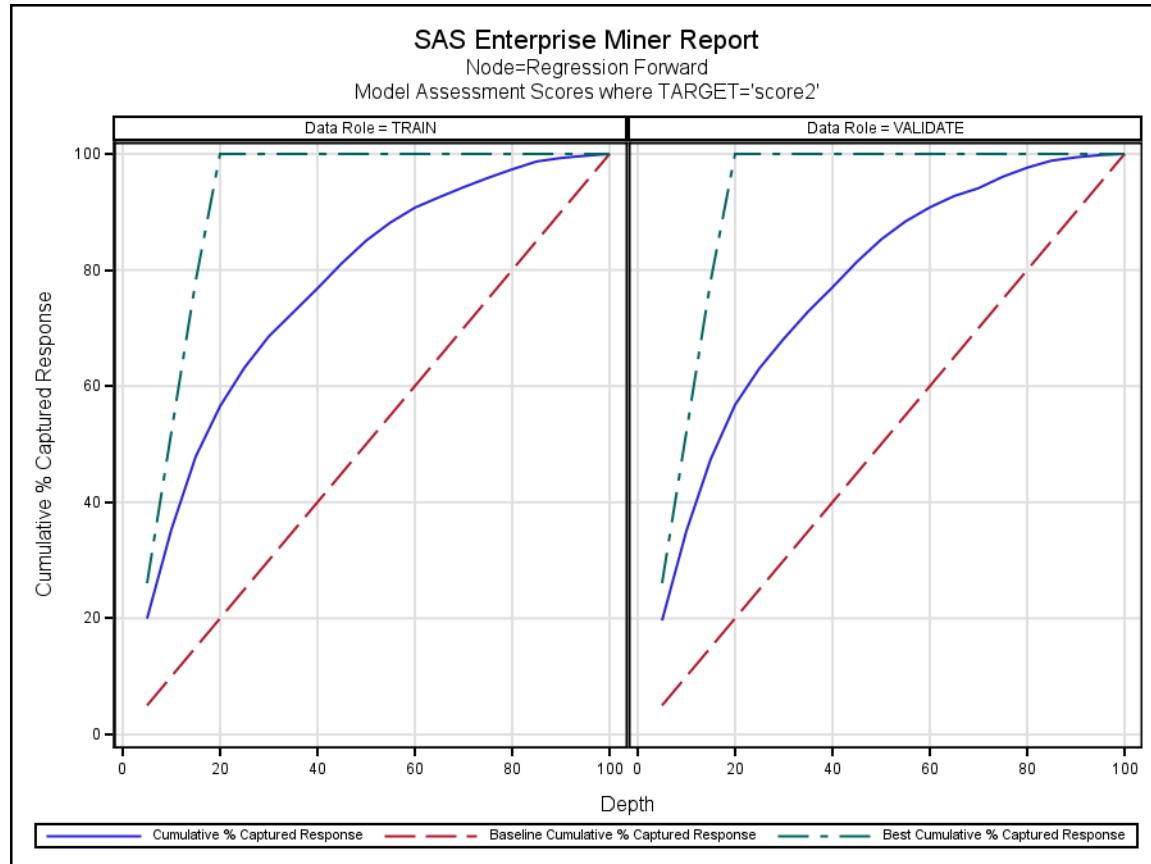
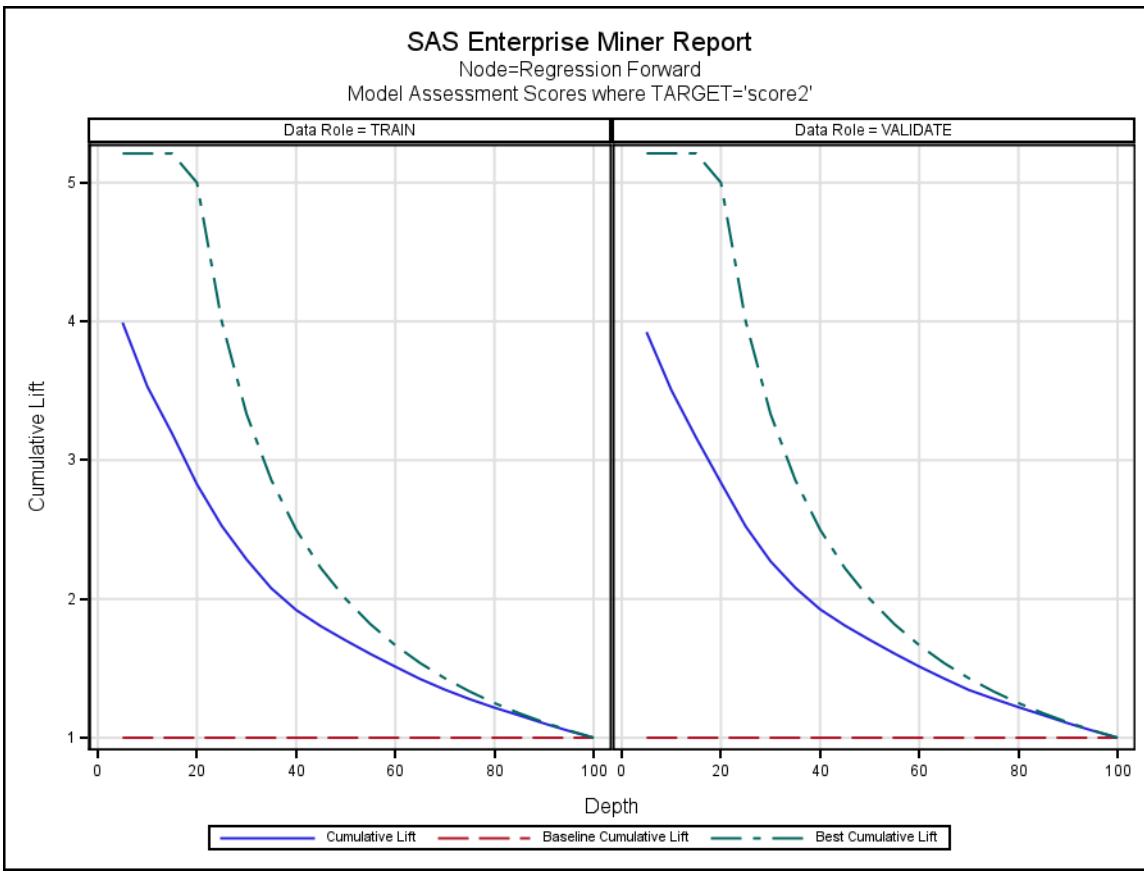
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SAS Enterprise Miner Report
Node=Regression Forward
Model Iteration Plots

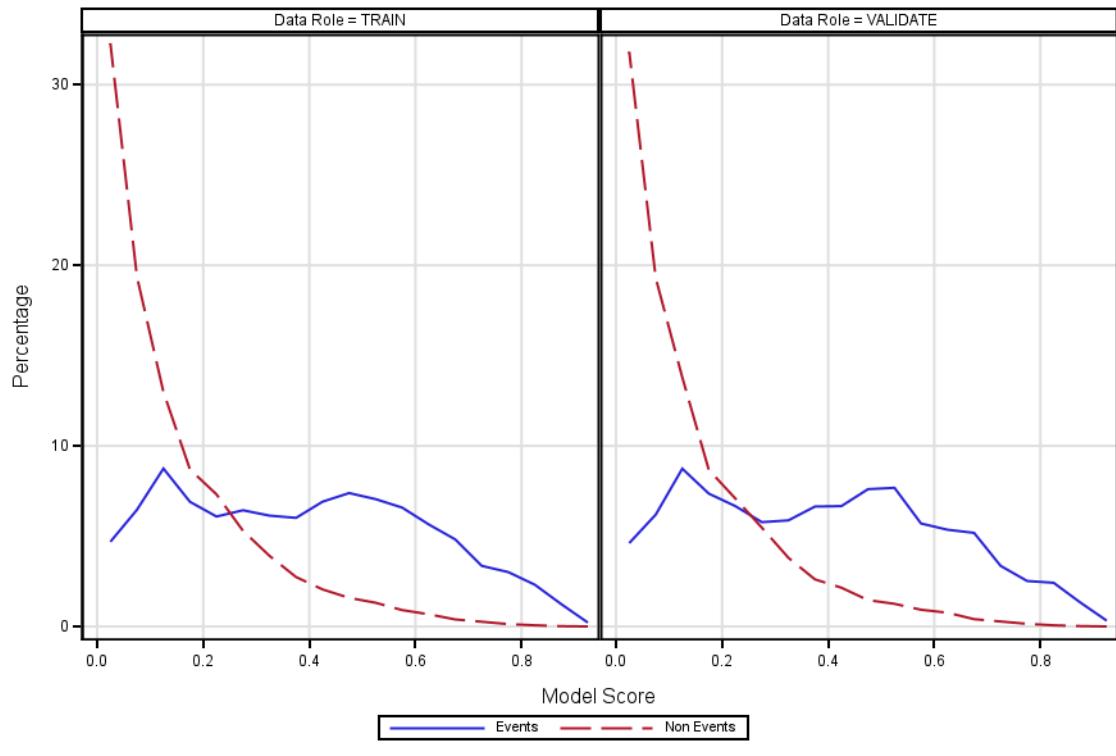


SAS Enterprise Miner Report
Node=Regression Forward
Model Assessment Scores where TARGET='score2'

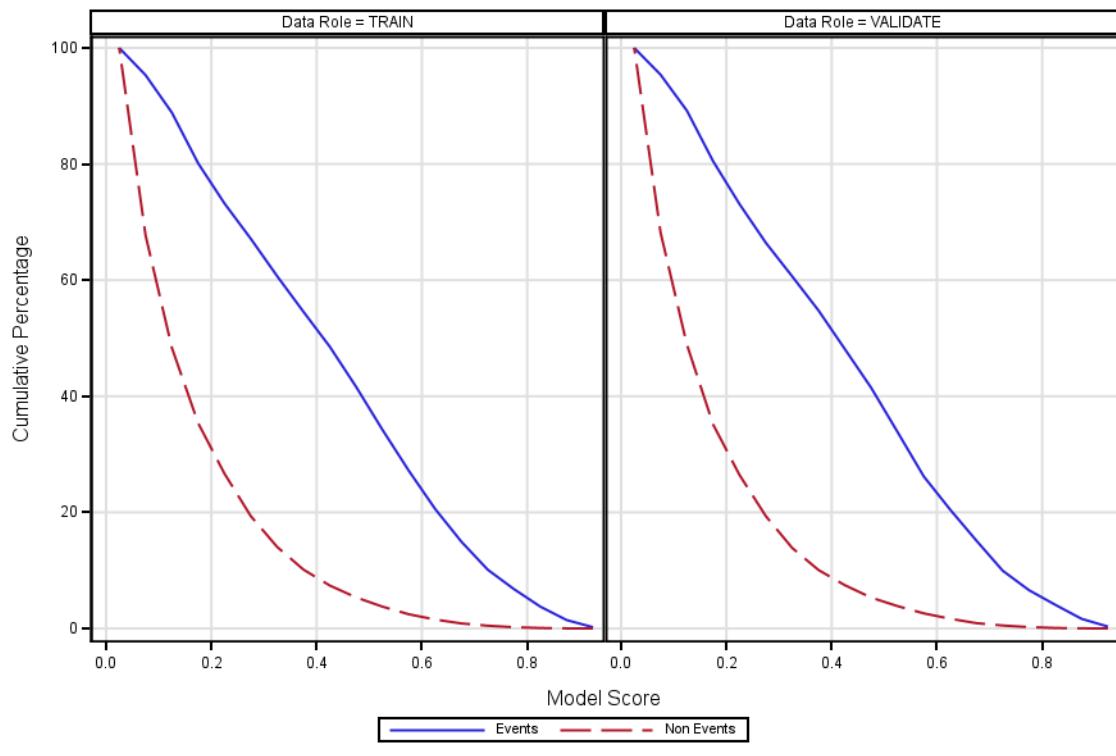




SAS Enterprise Miner Report
 Node=Regression Forward
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Forward
 Score Distributions where TARGET='score2'



Node=Regression Forward
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	150	1.23406	0.0176	1.448	0.018
0.80-0.85	281	2.31181	0.0664	3.760	0.084
0.75-0.80	366	3.01111	0.1309	6.771	0.215
0.70-0.75	408	3.35664	0.2618	10.128	0.477
0.65-0.70	586	4.82106	0.3889	14.949	0.866
0.60-0.65	687	5.65200	0.6761	20.601	1.542
0.55-0.60	800	6.58165	0.9067	27.182	2.448
0.50-0.55	857	7.05060	1.3131	34.233	3.762
0.45-0.50	898	7.38791	1.5847	41.621	5.346
0.40-0.45	840	6.91074	2.0517	48.531	7.398
0.35-0.40	731	6.01399	2.7376	54.545	10.136
0.30-0.35	746	6.13739	3.9081	60.683	14.044
0.25-0.30	782	6.43357	5.2974	67.116	19.341
0.20-0.25	740	6.08803	7.3159	73.204	26.657
0.15-0.20	839	6.90251	8.6955	80.107	35.353
0.10-0.15	1063	8.74537	12.9846	88.852	48.337
0.05-0.10	785	6.45825	19.3724	95.311	67.709
0.00-0.05	570	4.68943	32.2905	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	13	0.32091	0.0000	0.321	0.000
0.85-0.90	54	1.33300	0.0234	1.654	0.023
0.80-0.85	98	2.41916	0.0645	4.073	0.088
0.75-0.80	102	2.51790	0.1466	6.591	0.234
0.70-0.75	136	3.35720	0.2755	9.948	0.510
0.65-0.70	210	5.18391	0.4045	15.132	0.914
0.60-0.65	217	5.35670	0.7621	20.489	1.677
0.55-0.60	231	5.70230	0.9262	26.191	2.603
0.50-0.55	311	7.67712	1.2545	33.868	3.857
0.45-0.50	308	7.60306	1.4596	41.471	5.317
0.40-0.45	270	6.66502	2.1455	48.136	7.462
0.35-0.40	269	6.64034	2.6086	54.777	10.071
0.30-0.35	238	5.87509	3.8044	60.652	13.875
0.25-0.30	234	5.77635	5.4693	66.428	19.345
0.20-0.25	270	6.66502	7.0872	73.093	26.432
0.15-0.20	298	7.35621	8.6699	80.449	35.102
0.10-0.15	354	8.73858	13.7933	89.188	48.895
0.05-0.10	251	6.19600	19.2860	95.384	68.181
0.00-0.05	187	4.61614	31.8190	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Exhaustive Summary

Node id = Reg16
 Node label = Regression Exhaustive
 Meta path = lds6 => Part3 => Reg16
 Notes =

Node=Regression Exhaustive 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SIStay	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	NONE		SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Exhaustive Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Exhaustive Model Fit Statistics

Target=score2 Target Label=score2

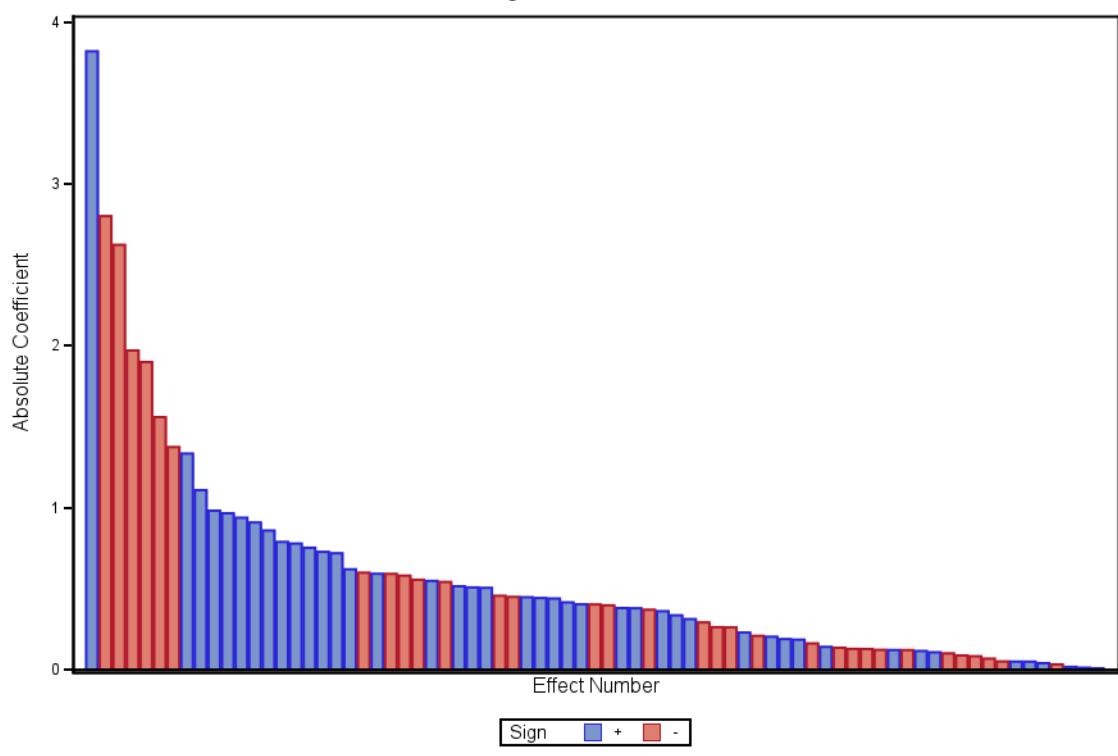
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47655.97	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.38	0.37	0.38
Degrees of Freedom for Error	63256.00	.	.
Model Degrees of Freedom	75.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47505.97	15806.37	15984.80
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	75.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48335.18	.	.
Sum of Squared Errors	14675.02	4900.21	4934.71
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Exhaustive
Regression Model Effects

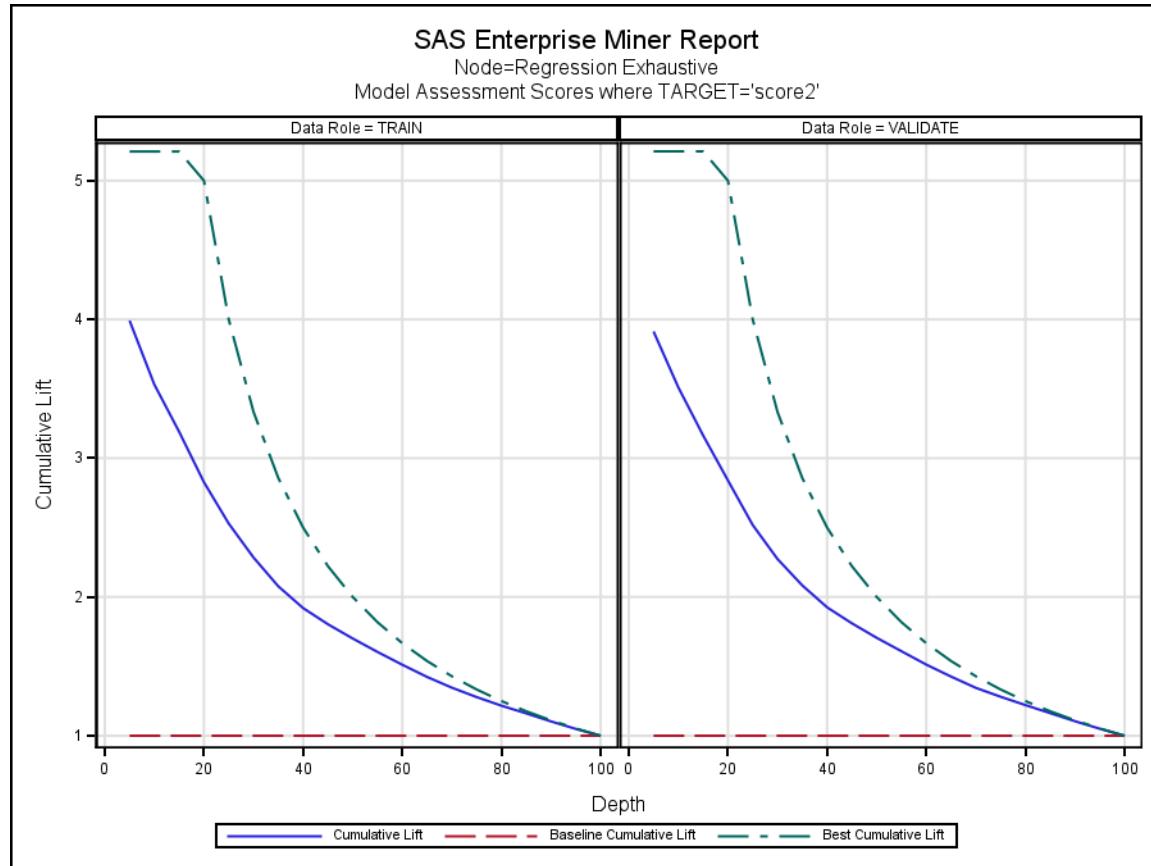
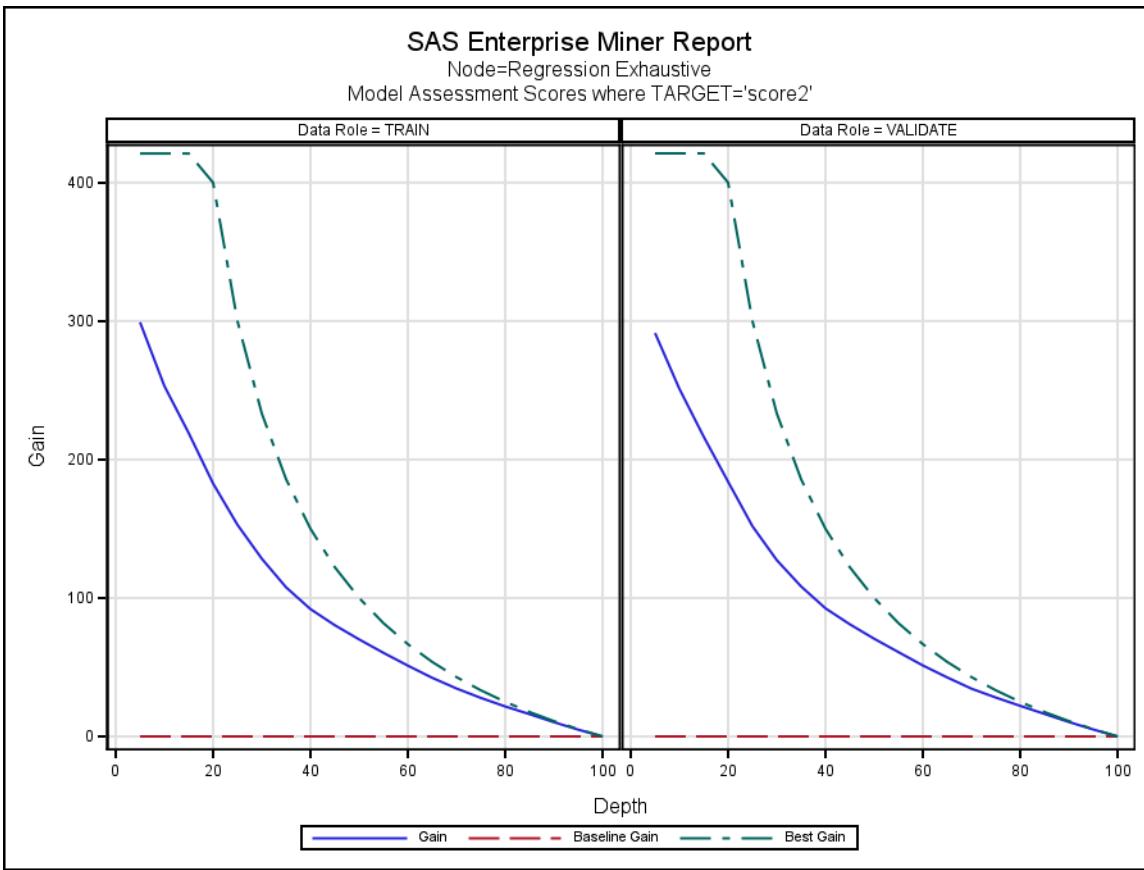


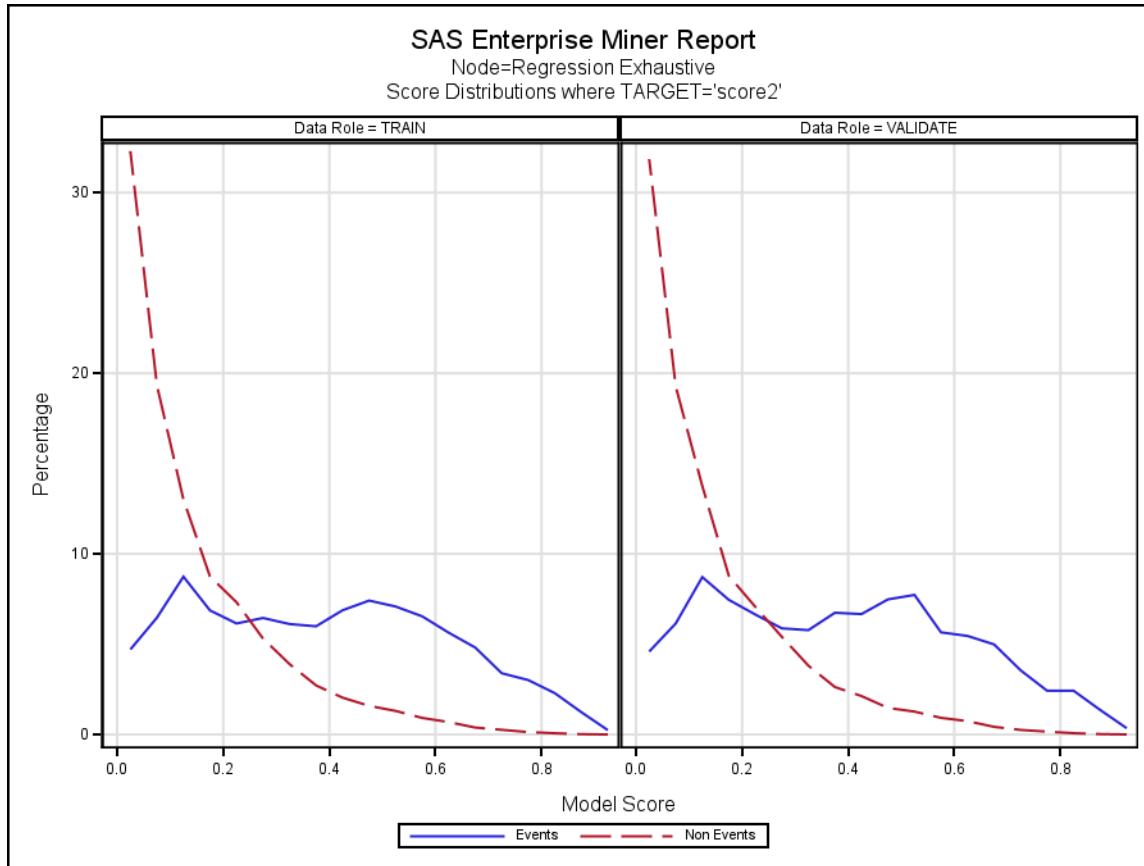
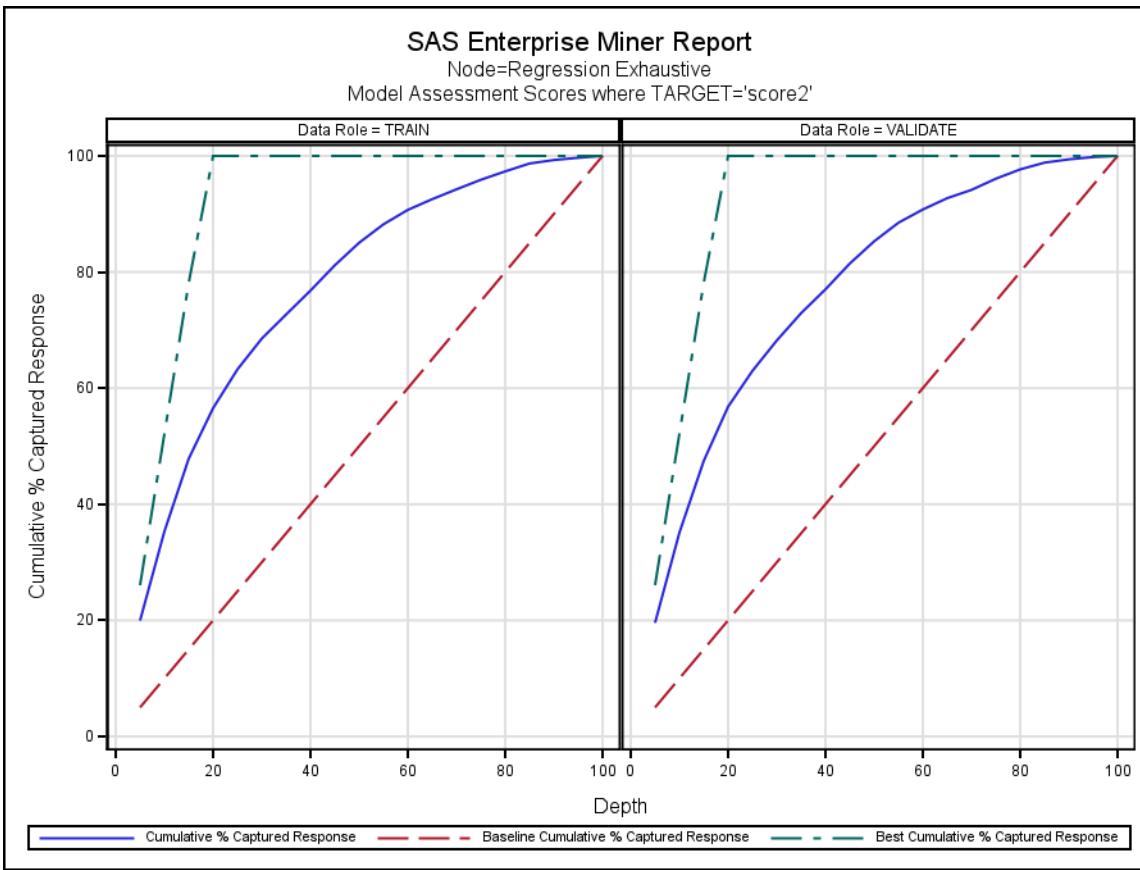
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.82097	7.1521	8.5487E-13	39	year	2008	-0.39794	-7.8930	0.00000
2	state	PENNSYLVANIA	-2.80257	-9.0296	1.7228E-19	40	state	ARIZONA	0.38108	4.3749	0.00001
3	state	NEW_YORK	-2.62508	-8.4102	4.0943E-17	41	state	IOWA	0.37976	4.8212	0.00000
4	state	WEST_VIRGINIA	-1.97212	-10.4814	1.0523E-25	42	state	KENTUCKY	-0.37094	-3.5384	0.00040
5	state	OHIO	-1.90085	-9.0708	1.1819E-19	43	state	KANSAS	0.36163	5.2869	0.00000
6	year	2009	-1.56068	-20.7386	1.5554E-95	44	month	2	0.33621	6.7742	0.00000
7	year	2010	-1.37569	-19.4941	1.2319E-84	45	month	11	0.31307	7.0961	0.00000
8	state	GEORGIA	1.33554	17.8094	5.9736E-71	46	state	ILLINOIS	-0.29236	-2.6351	0.00841
9	state	OREGON	1.10951	15.1309	1.0125E-51	47	month	8	-0.26287	-5.0101	0.00000

SAS Enterprise Miner Report
Node=Regression Exhaustive
Regression Model Effects

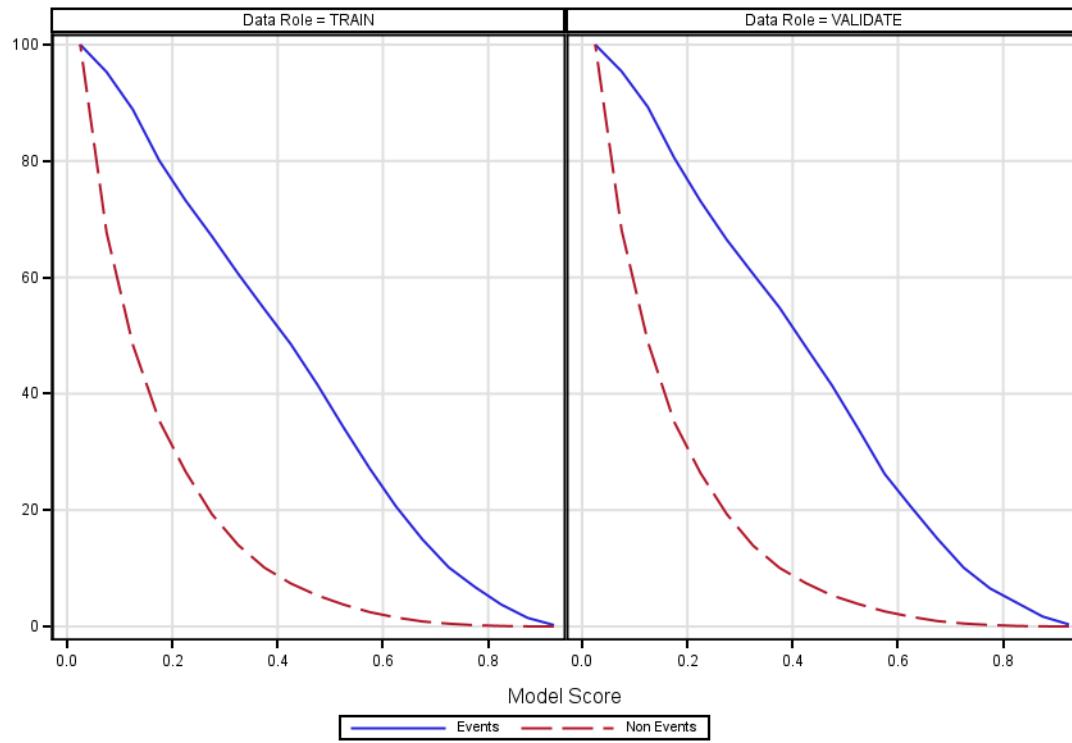
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.98248	16.1083	2.2296E-58	48	year	2001	-0.26151	-5.3030	0.00000
11	year	2002	0.96645	24.0819	3.868E-128	49	month	10	0.22971	6.1958	0.00000
12	year	2012	0.93910	23.4895	5.22E-122	50	year	2000	-0.20913	-4.3687	0.00001
13	year	2003	0.90965	22.4818	6.255E-112	51	state	TENNESSEE	0.20386	2.2178	0.02657
14	state	CALIFORNIA	0.85995	12.4164	2.1294E-35	52	year	2014	0.18950	4.1827	0.00003
15	state	SOUTH_DAKOTA	0.78974	12.5962	2.2158E-36	53	state	MISSISSIPPI	0.18562	1.9547	0.05062
16	state	OKLAHOMA	0.77954	11.9890	4.0571E-33	54	state	MAINE	-0.16258	-1.4410	0.14957
17	year	2013	0.75351	18.4015	1.2773E-75	55	TS		0.14114	10.7071	0.00000
18	state	LOUISIANA	0.72843	8.4708	2.4362E-17	56	month	4	-0.13579	-3.4149	0.00064
19	year	2004	0.71977	17.2560	1.0083E-66	57	year	2005	-0.12849	-2.6804	0.00735
20	state	SOUTH_CAROLINA	0.62038	7.1217	1.0659E-12	58	year	2006	-0.12805	-2.7127	0.00667
21	state	NORTH_DAKOTA	-0.59950	-5.9976	.000000002	59	state	COLORADO	-0.12275	-1.3430	0.17927
22	year	2007	0.59280	14.1771	1.2692E-45	60	WS10M		0.12159	3.5257	0.00042
23	state	INDIANA	-0.59219	-4.9045	.000000936	61	WS50M		-0.12144	-4.6729	0.00000
24	state	VIRGINIA	-0.58121	-5.2563	.000000147	62	year	2011	0.11571	2.5523	0.01070
25	state	MISSOURI	-0.55572	-4.8325	.000001349	63	month	3	0.10763	2.5234	0.01162
26	state	ARKANSAS	0.54848	6.4090	1.4645E-10	64	month	9	-0.10121	-2.3746	0.01757
27	month	6	-0.54218	-10.5870	3.4238E-26	65	state	NEW_MEXICO	-0.08814	-0.9402	0.34712
28	state	ALABAMA	0.51565	5.7565	.000000009	66	T2MDEW		-0.08325	-14.7058	0.00000
29	state	MINNESOTA	0.50845	6.1990	5.6835E-10	67	PS		-0.06854	-12.1934	0.00000
30	state	NEVADA	0.50600	5.6486	.000000016	68	T2M		-0.05136	-3.8096	0.00014
31	month	7	-0.45685	-8.1703	3.0756E-16	69	state	WASHINGTON	0.05035	0.6237	0.53282
32	state	MICHIGAN	-0.44996	-3.7965	.000146738	70	state	UTAH	0.04992	0.5789	0.56267
33	state	MONTANA	0.44793	5.6866	.000000013	71	state	WISCONSIN	0.04059	0.4215	0.67339
34	month	1	0.44316	8.5685	1.0485E-17	72	state	TEXAS	-0.03293	-0.4512	0.65185
35	state	IDAHO	0.43988	4.9721	.000000662	73	year	2015	0.01747	0.3724	0.70956
36	state	FLORIDA	0.41601	3.7238	.000196233	74	QV2M		0.01249	1.1004	0.27116
37	state	NORTH_CAROLINA	0.40392	4.3500	.000013613	75	PRECTOT		0.00881	3.3477	0.00081
38	month	5	-0.40316	-9.5635	1.1385E-21





SAS Enterprise Miner Report
 Node=Regression Exhaustive
 Score Distributions where TARGET='score2'



**Node=Regression Exhaustive
 Score Distributions**

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	29	0.23858	0.0000	0.239	0.000
0.85-0.90	150	1.23406	0.0176	1.473	0.018
0.80-0.85	278	2.28712	0.0684	3.760	0.086
0.75-0.80	366	3.01111	0.1329	6.771	0.219
0.70-0.75	412	3.38955	0.2579	10.160	0.477
0.65-0.70	585	4.81283	0.3830	14.973	0.860
0.60-0.65	685	5.63554	0.6859	20.609	1.546
0.55-0.60	795	6.54052	0.9164	27.149	2.462
0.50-0.55	861	7.08350	1.3033	34.233	3.765
0.45-0.50	901	7.41259	1.5847	41.645	5.350
0.40-0.45	836	6.87783	2.0381	48.523	7.388
0.35-0.40	728	5.98930	2.7161	54.513	10.104
0.30-0.35	743	6.11271	3.8964	60.625	14.001
0.25-0.30	784	6.45002	5.3111	67.075	19.312
0.20-0.25	747	6.14562	7.3237	73.221	26.636
0.15-0.20	835	6.86960	8.7463	80.090	35.382
0.10-0.15	1062	8.73715	13.0081	88.828	48.390
0.05-0.10	786	6.46647	19.3255	95.294	67.715
0.00-0.05	572	4.70588	32.2847	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	14	0.34559	0.0000	0.346	0.000
0.85-0.90	55	1.35769	0.0234	1.703	0.023
0.80-0.85	98	2.41916	0.0703	4.122	0.094
0.75-0.80	98	2.41916	0.1583	6.542	0.252
0.70-0.75	144	3.55468	0.2521	10.096	0.504
0.65-0.70	202	4.98642	0.4221	15.083	0.926
0.60-0.65	221	5.45544	0.7386	20.538	1.665
0.55-0.60	229	5.65293	0.9203	26.191	2.585
0.50-0.55	313	7.72649	1.2662	33.918	3.851
0.45-0.50	303	7.47963	1.4714	41.397	5.323
0.40-0.45	270	6.66502	2.1279	48.062	7.451
0.35-0.40	273	6.73908	2.6262	54.801	10.077
0.30-0.35	234	5.77635	3.8103	60.578	13.887
0.25-0.30	238	5.87509	5.4048	66.453	19.292
0.20-0.25	269	6.64034	7.0637	73.093	26.356
0.15-0.20	302	7.45495	8.7872	80.548	35.143
0.10-0.15	353	8.71390	13.7581	89.262	48.901
0.05-0.10	249	6.14663	19.2626	95.409	68.163
0.00-0.05	186	4.59146	31.8366	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 20HU Summary

Node id = Neural7
 Node label = Neural Network 20HU
 Meta path = lds6 => Part3 => Neural7
 Notes =

Node=Neural Network 20HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	20	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	MISCLASSIFICATION	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 20HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 20HU Model Fit Statistics

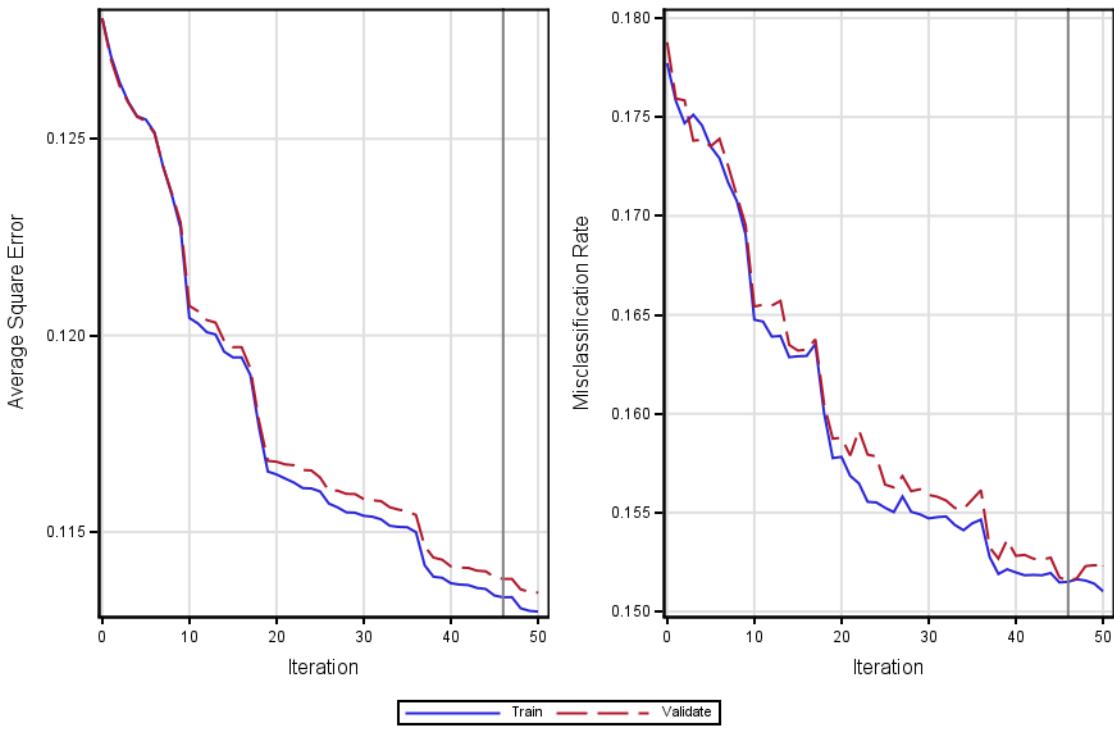
Target=score2 Target Label=score2

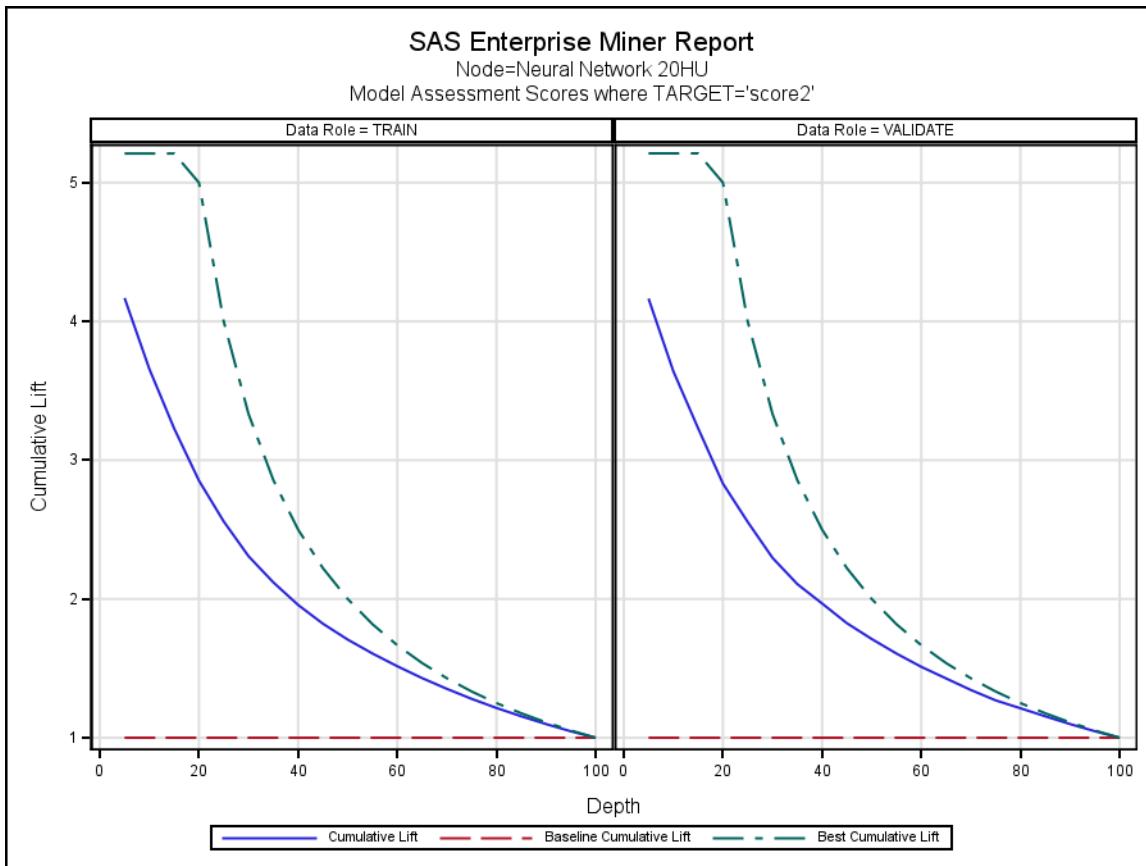
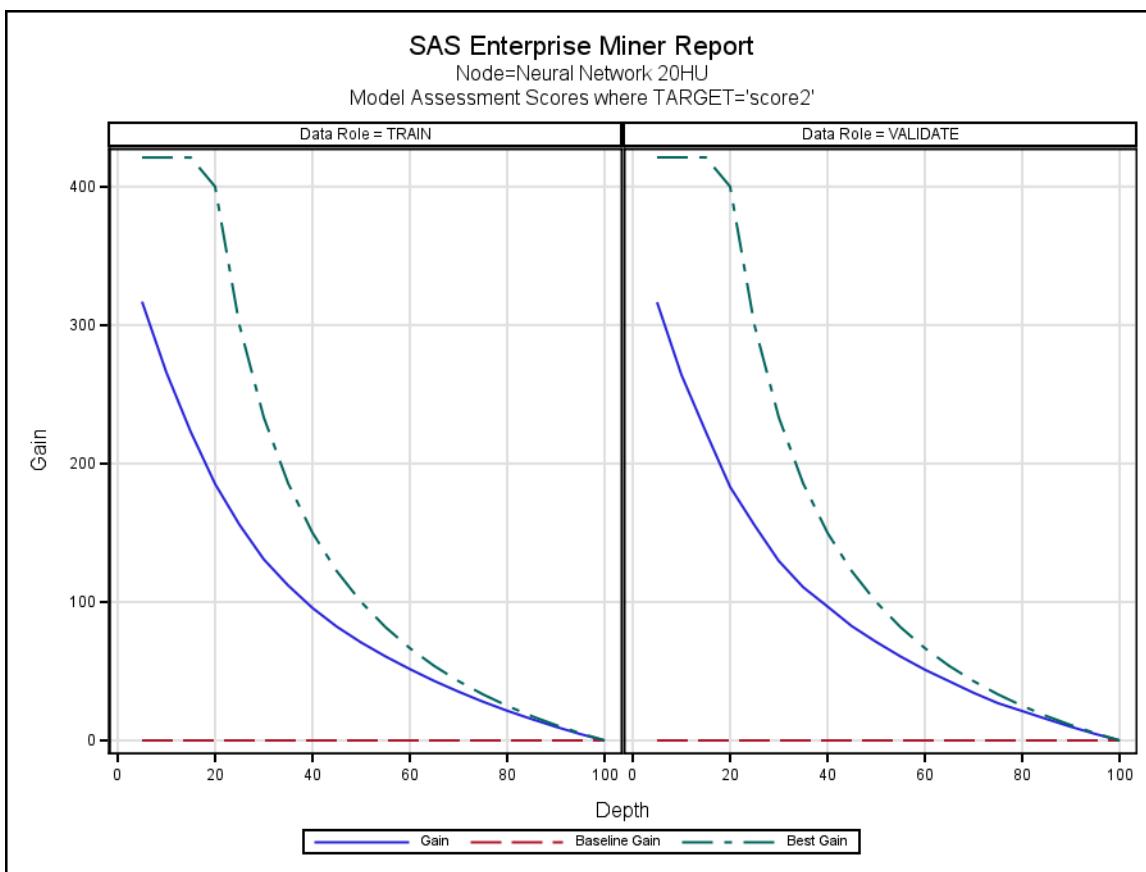
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	61810.00	.	.
Model Degrees of Freedom	1521.00	.	.
Number of Estimated Weights	1521.00	.	.

Target=score2 Target Label=score2

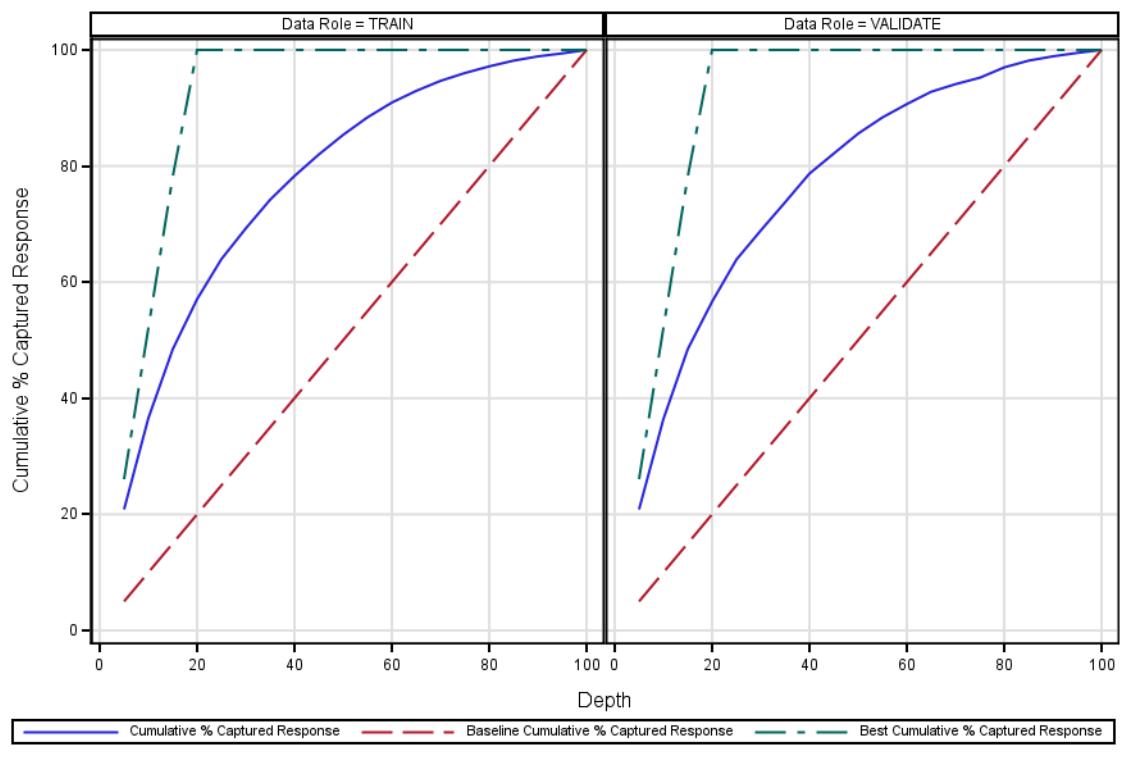
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	49735.83	.	.
Schwarz's Bayesian Criterion	63510.20	.	.
Average Squared Error	0.11	0.11	0.11
Maximum Absolute Error	0.99	0.99	0.99
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.34	0.34	0.34
Sum of Squared Errors	14355.62	4804.93	4816.18
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.12	.	.
Mean Squared Error	0.12	0.11	0.11
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Average Error Function	0.37	0.37	0.37
Error Function	46693.83	15629.29	15673.47
Misclassification Rate	0.15	0.15	0.15
Number of Wrong Classifications	9595.00	3199.00	3195.00

SAS Enterprise Miner Report
Node=Neural Network 20HU
Model Iteration Plots

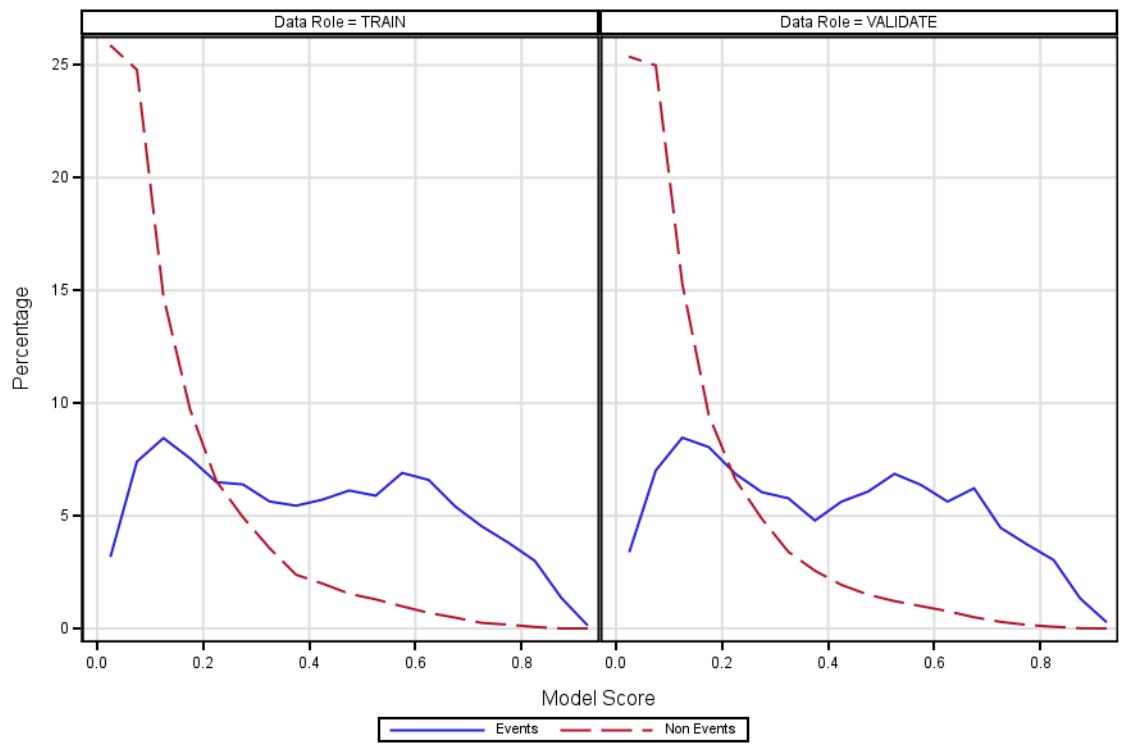




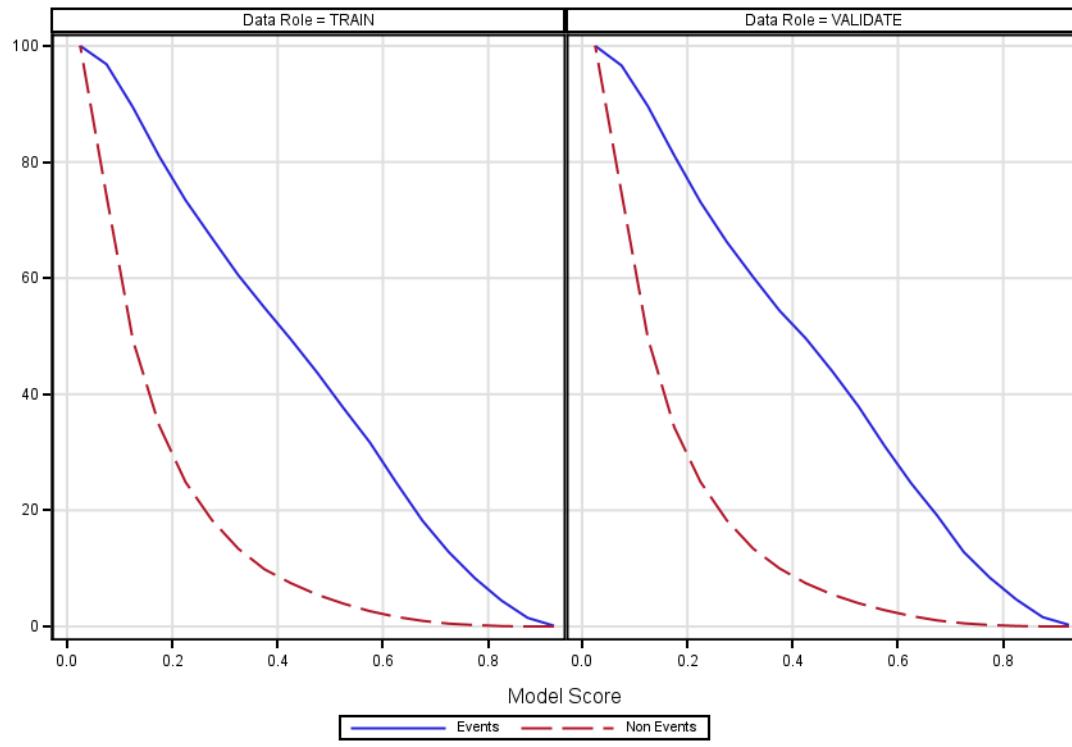
SAS Enterprise Miner Report
 Node=Neural Network 20HU
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 20HU
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 20HU
 Score Distributions where TARGET='score2'



Node=Neural Network 20HU

Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	15	0.12341	0.0000	0.123	0.000
0.85-0.90	165	1.35747	0.0020	1.481	0.002
0.80-0.85	365	3.00288	0.0684	4.484	0.070
0.75-0.80	463	3.80913	0.1680	8.293	0.238
0.70-0.75	551	4.53311	0.2482	12.826	0.487
0.65-0.70	658	5.41341	0.4807	18.239	0.967
0.60-0.65	801	6.58988	0.6917	24.829	1.659
0.55-0.60	839	6.90251	0.9829	31.732	2.642
0.50-0.55	716	5.89058	1.2916	37.622	3.933
0.45-0.50	744	6.12094	1.5437	43.743	5.477
0.40-0.45	695	5.71781	1.9892	49.461	7.466
0.35-0.40	662	5.44632	2.3839	54.907	9.850
0.30-0.35	685	5.63554	3.5642	60.543	13.414
0.25-0.30	777	6.39243	4.9300	66.935	18.345
0.20-0.25	789	6.49116	6.5304	73.427	24.875
0.15-0.20	918	7.55245	9.7311	80.979	34.606
0.10-0.15	1027	8.44920	14.7296	89.428	49.336
0.05-0.10	900	7.40436	24.7890	96.833	74.125
0.00-0.05	385	3.16742	25.8754	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	11	0.27154	0.0000	0.272	0.000
0.85-0.90	54	1.33300	0.0117	1.605	0.012
0.80-0.85	123	3.03629	0.0762	4.641	0.088
0.75-0.80	151	3.72747	0.1583	8.368	0.246
0.70-0.75	181	4.46803	0.2931	12.836	0.539
0.65-0.70	252	6.22069	0.4983	19.057	1.038
0.60-0.65	228	5.62824	0.7679	24.685	1.805
0.55-0.60	258	6.36880	0.9907	31.054	2.796
0.50-0.55	278	6.86250	1.2134	37.917	4.010
0.45-0.50	246	6.07257	1.5007	43.989	5.510
0.40-0.45	228	5.62824	1.9345	49.617	7.445
0.35-0.40	194	4.78894	2.5617	54.406	10.006
0.30-0.35	234	5.77635	3.4000	60.183	13.406
0.25-0.30	245	6.04789	4.8655	66.231	18.272
0.20-0.25	278	6.86250	6.6123	73.093	24.884
0.15-0.20	326	8.04740	9.4613	81.140	34.346
0.10-0.15	343	8.46705	15.2998	89.608	49.645
0.05-0.10	284	7.01061	24.9839	96.618	74.629
0.00-0.05	137	3.38188	25.3708	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 10HU Summary

Node id = Neural3
 Node label = Neural Network 10HU
 Meta path = lds6 => Part3 => Neural3
 Notes =

Node=Neural Network 10HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	10	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	MISCLASSIFICATION	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 10HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 10HU Model Fit Statistics

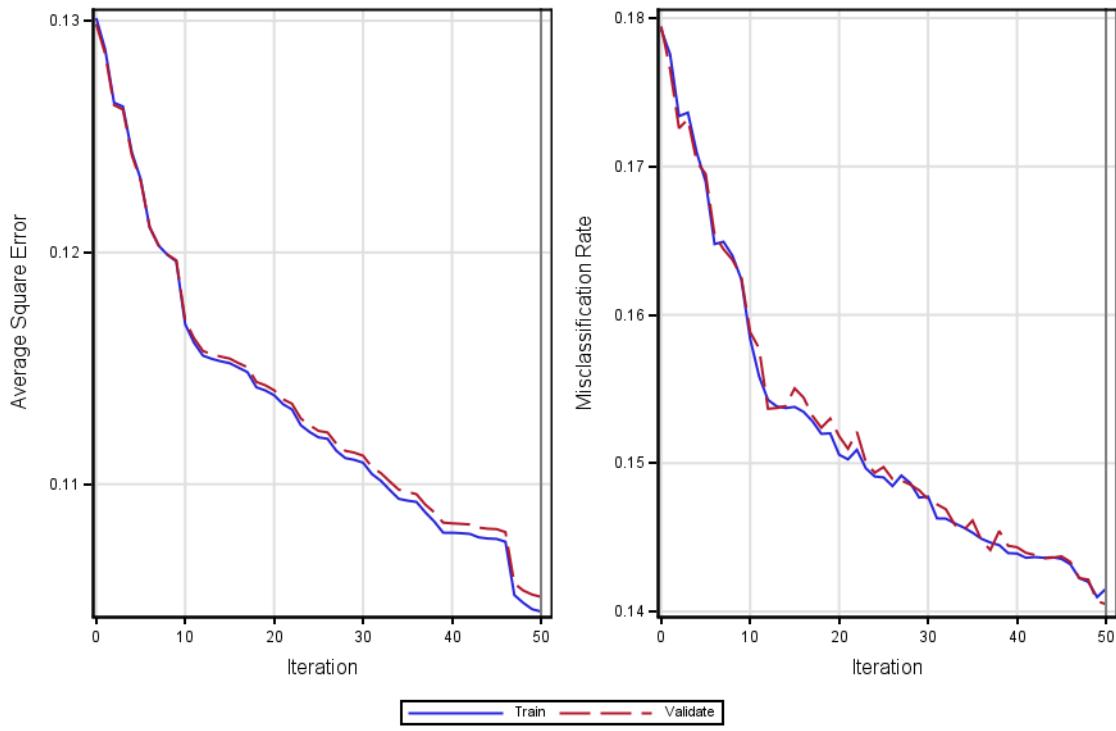
Target=score2 Target Label=score2

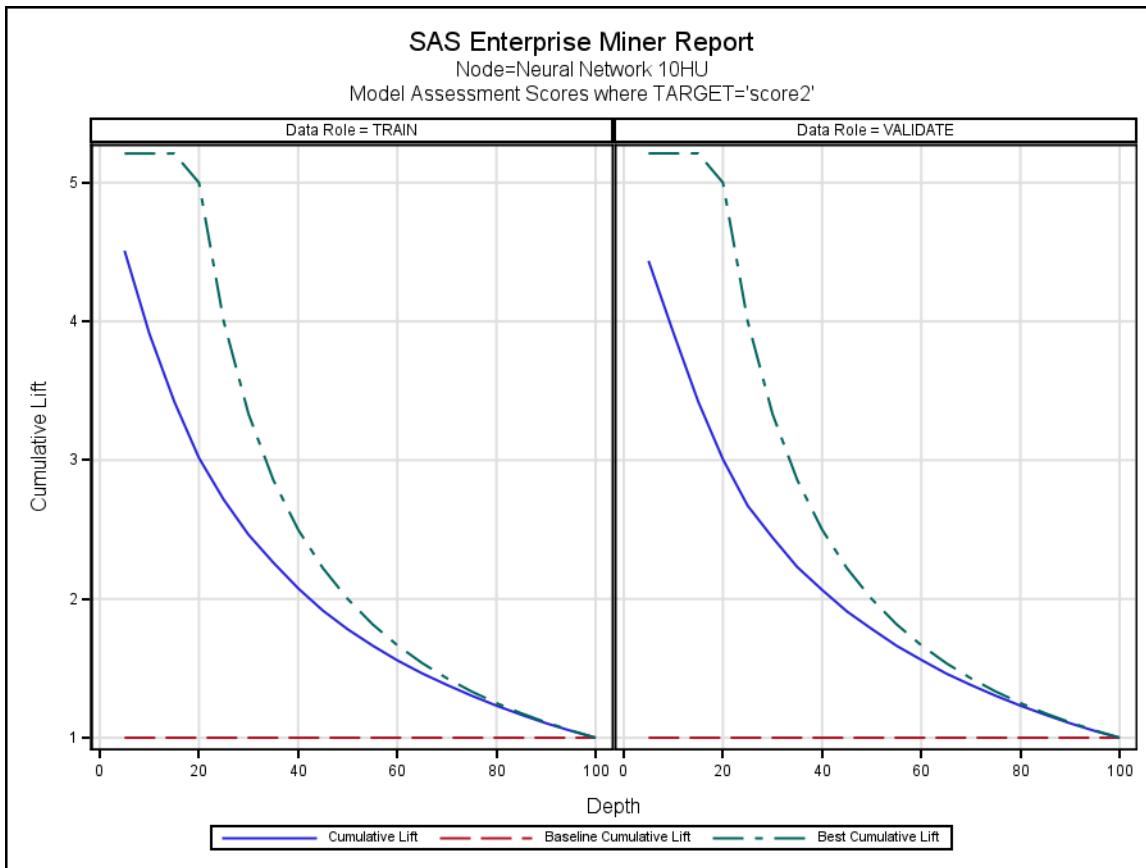
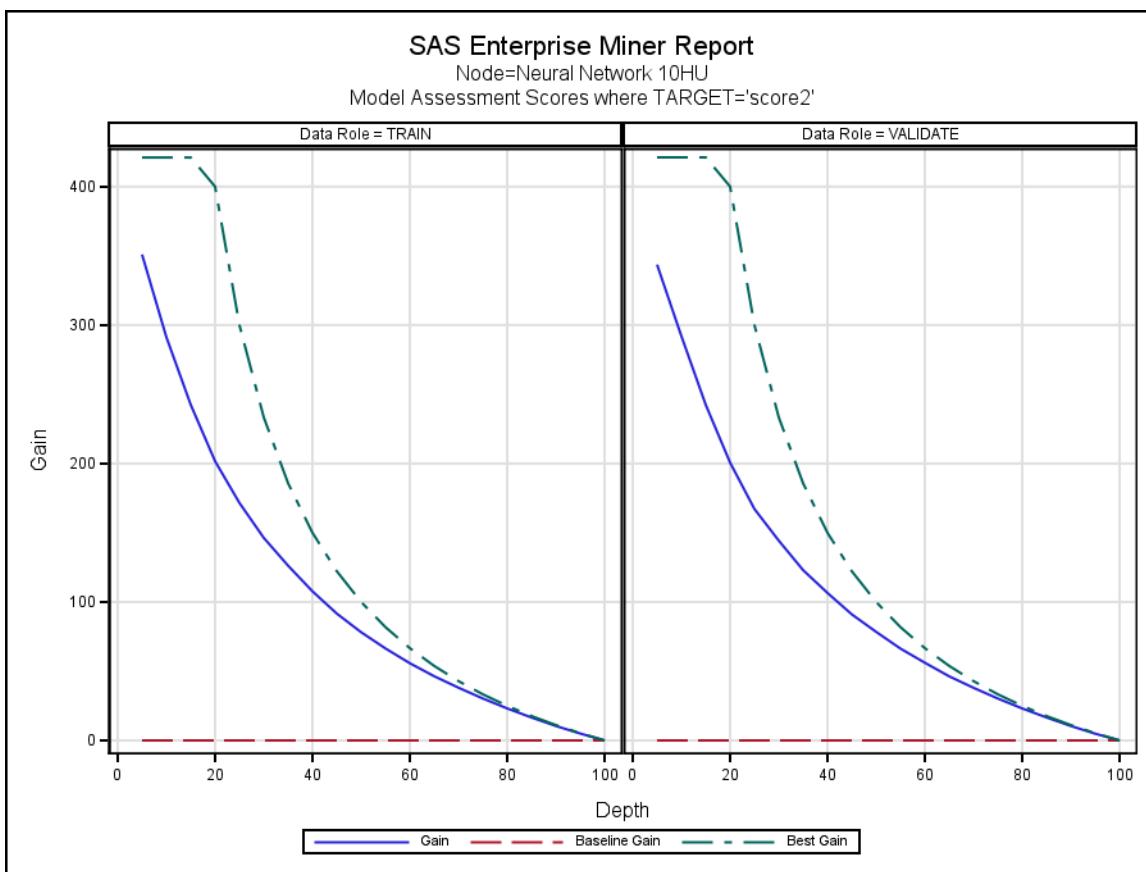
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	62570.00	.	.
Model Degrees of Freedom	761.00	.	.
Number of Estimated Weights	761.00	.	.

Target=score2 Target Label=score2

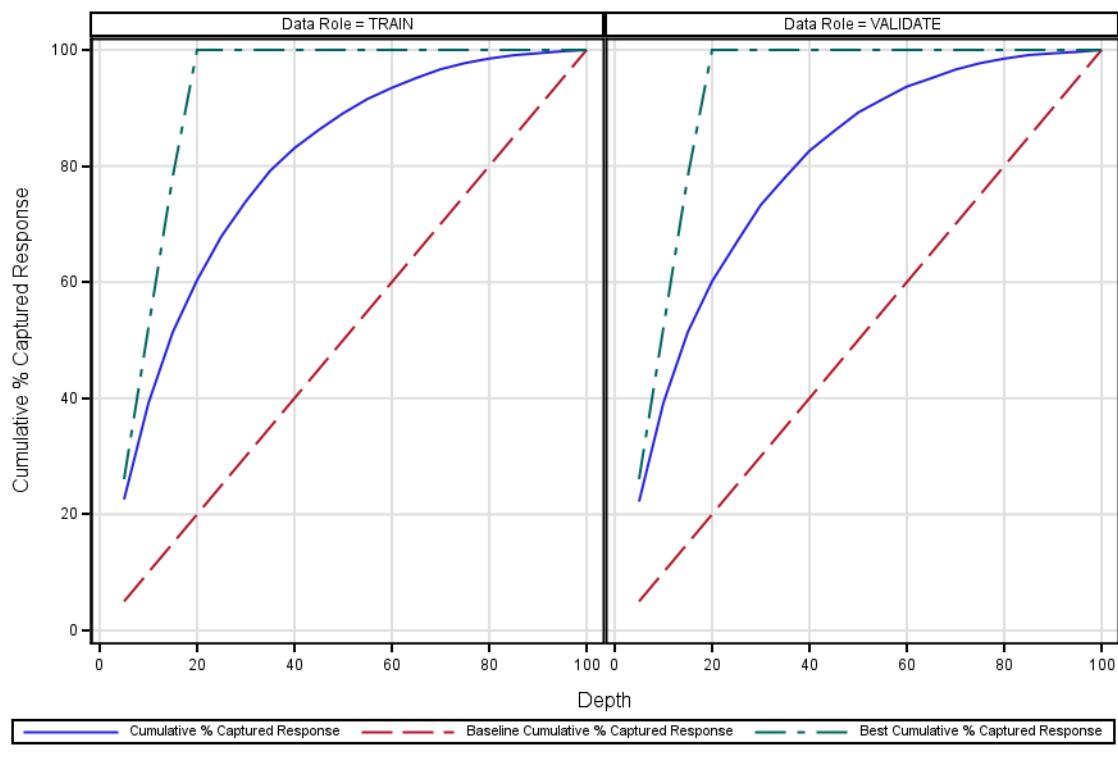
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	44639.82	.	.
Schwarz's Bayesian Criterion	51531.53	.	.
Average Squared Error	0.10	0.11	0.11
Maximum Absolute Error	1.00	0.99	1.00
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.32	0.32	0.32
Sum of Squared Errors	13236.44	4438.83	4459.81
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.11	.	.
Mean Squared Error	0.11	0.11	0.11
Root Final Prediction Error	0.33	.	.
Root Mean Squared Error	0.33	0.32	0.32
Average Error Function	0.34	0.34	0.34
Error Function	43117.82	14455.30	14516.25
Misclassification Rate	0.14	0.14	0.14
Number of Wrong Classifications	8964.00	2966.00	3038.00

SAS Enterprise Miner Report
Node=Neural Network 10HU
Model Iteration Plots

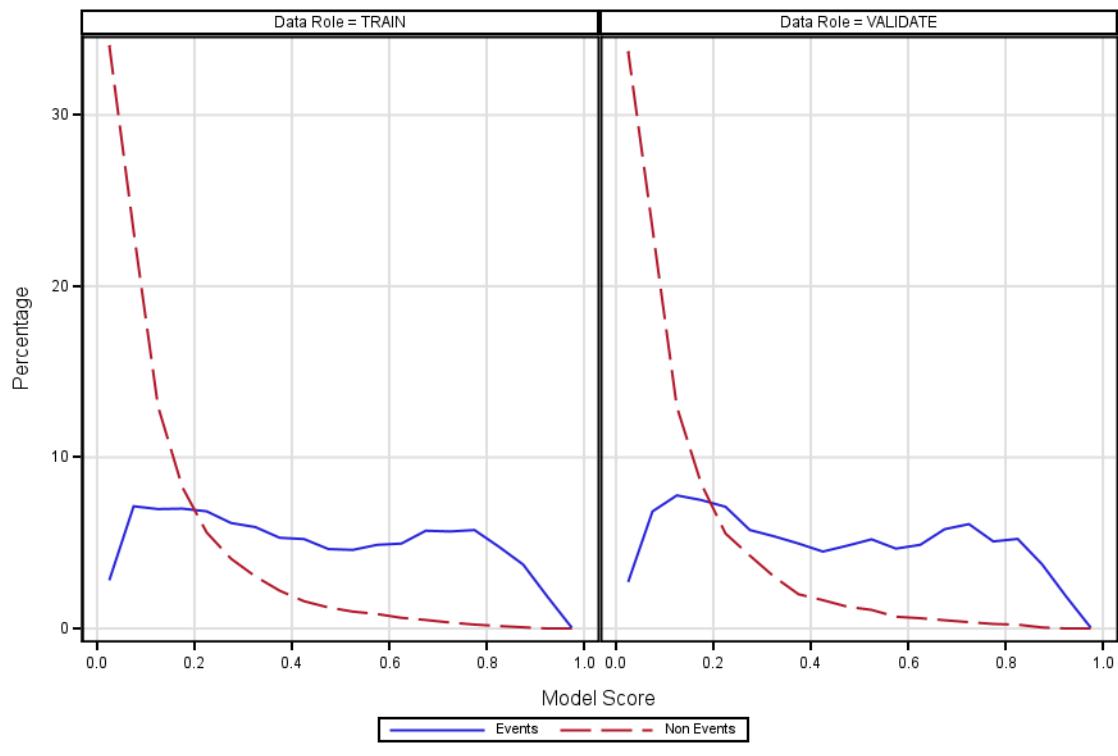




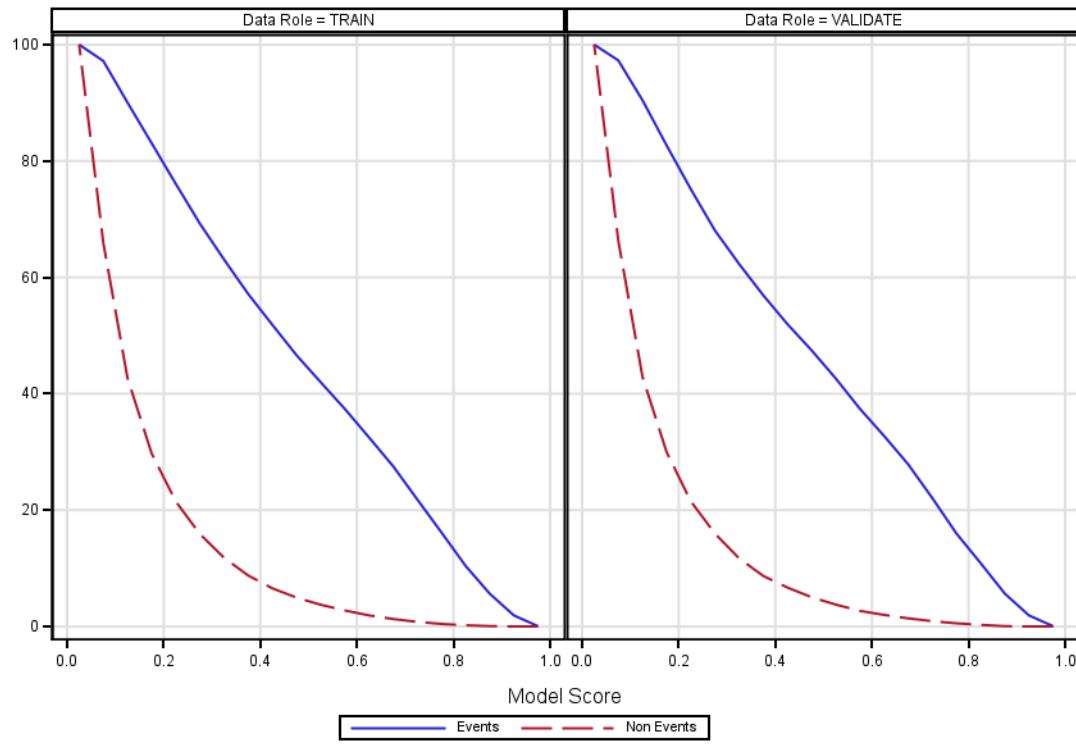
SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Score Distributions where TARGET='score2'



Node=Neural Network 10HU
Score Distributions

Target Variable=score2 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	5	0.04114	0.0000	0.041	0.000
0.90-0.95	225	1.85109	0.0000	1.892	0.000
0.85-0.90	454	3.73509	0.0684	5.627	0.068
0.80-0.85	581	4.77993	0.1426	10.407	0.211
0.75-0.80	699	5.75072	0.2286	16.158	0.440
0.70-0.75	689	5.66845	0.3459	21.826	0.786
0.65-0.70	694	5.70958	0.4963	27.536	1.282
0.60-0.65	603	4.96092	0.6214	32.497	1.903
0.55-0.60	594	4.88688	0.8441	37.384	2.747
0.50-0.55	558	4.59070	0.9868	41.974	3.734
0.45-0.50	564	4.64007	1.2271	46.615	4.961
0.40-0.45	635	5.22419	1.5906	51.839	6.552
0.35-0.40	644	5.29823	2.2061	57.137	8.758
0.30-0.35	720	5.92349	3.0405	63.060	11.798
0.25-0.30	749	6.16207	4.0761	69.223	15.875
0.20-0.25	832	6.84492	5.6101	76.067	21.485
0.15-0.20	851	7.00123	8.2578	83.069	29.742
0.10-0.15	848	6.97655	12.9807	90.045	42.723
0.05-0.10	868	7.14109	23.2042	97.186	65.927
0.00-0.05	342	2.81366	34.0726	100.000	100.000

Target Variable=score2 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	0.04937	0.0000	0.049	0.000
0.90-0.95	75	1.85139	0.0000	1.901	0.000
0.85-0.90	152	3.75216	0.0586	5.653	0.059
0.80-0.85	212	5.23328	0.2228	10.886	0.281
0.75-0.80	206	5.08516	0.2638	15.971	0.545
0.70-0.75	247	6.09726	0.3693	22.069	0.914
0.65-0.70	235	5.80104	0.4807	27.870	1.395
0.60-0.65	198	4.88768	0.5979	32.757	1.993
0.55-0.60	189	4.66551	0.6859	37.423	2.679
0.50-0.55	211	5.20859	1.0845	42.631	3.763
0.45-0.50	196	4.83831	1.2721	47.470	5.035
0.40-0.45	182	4.49272	1.6531	51.962	6.689
0.35-0.40	201	4.96174	1.9989	56.924	8.687
0.30-0.35	218	5.38139	3.0189	62.306	11.706
0.25-0.30	233	5.75167	4.2558	68.057	15.962
0.20-0.25	288	7.10936	5.5455	75.167	21.508
0.15-0.20	304	7.50432	8.4589	82.671	29.967
0.10-0.15	315	7.77586	12.9492	90.447	42.916
0.05-0.10	277	6.83782	23.3660	97.285	66.282
0.00-0.05	110	2.71538	33.7183	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 7HU Summary

Node id = Neural2
 Node label = Neural Network 7HU
 Meta path = lds6 => Part3 => Neural2
 Notes =

Node=Neural Network 7HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	7	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	MISCLASSIFICATION	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 7HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 7HU Model Fit Statistics

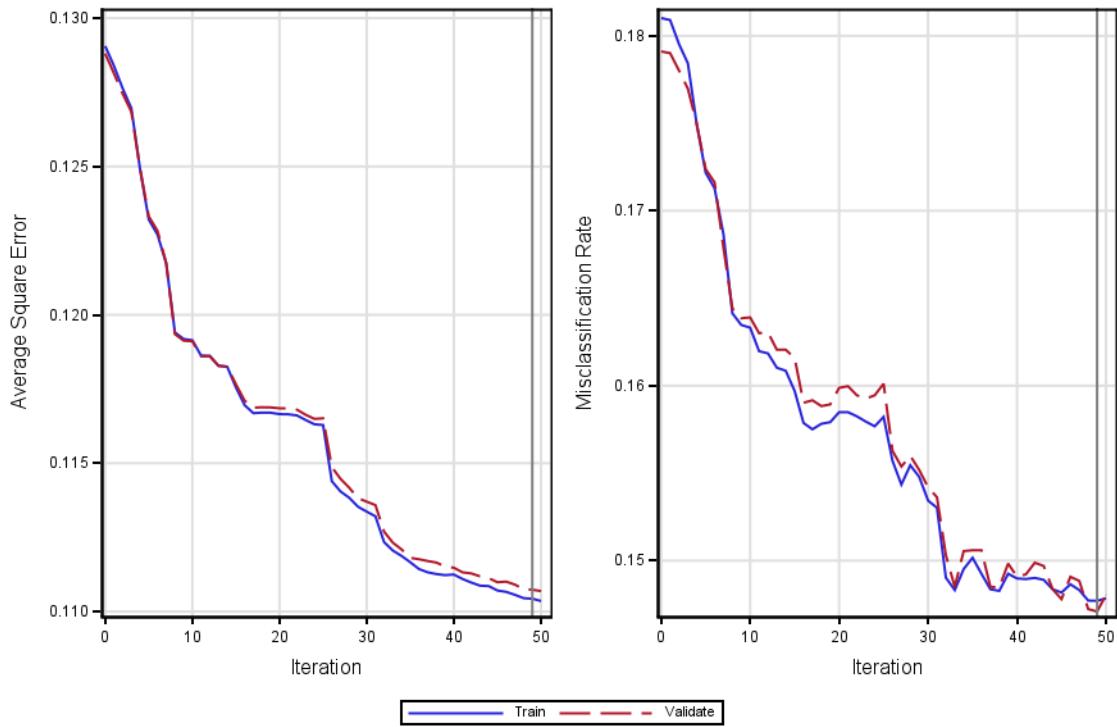
Target=score2 Target Label=score2

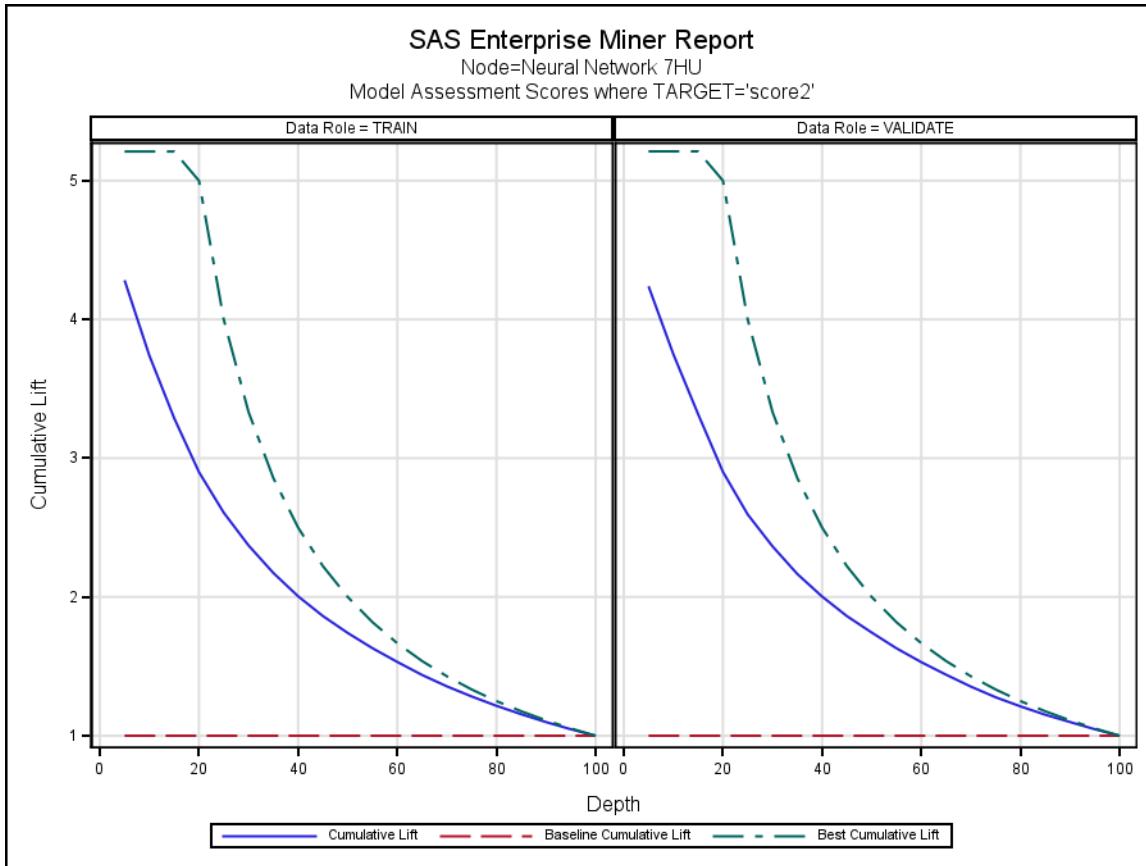
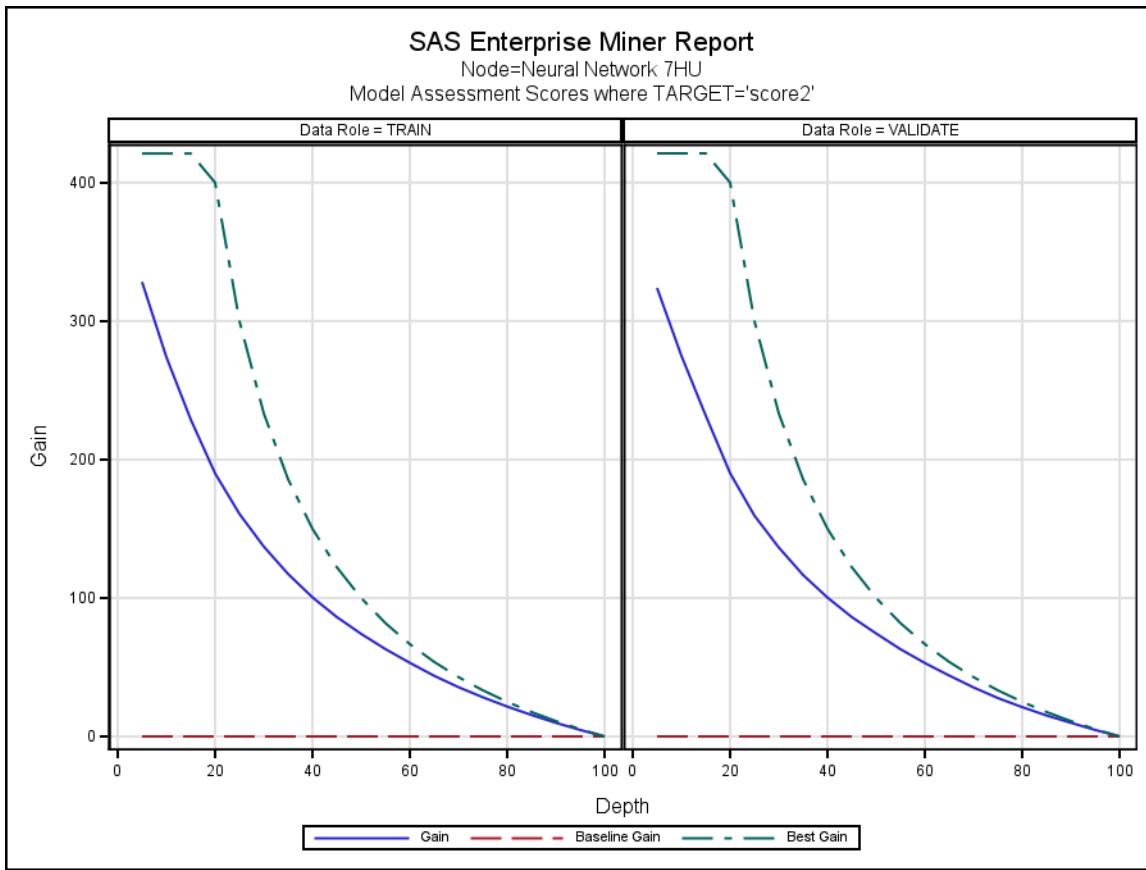
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	62798.00	.	.
Model Degrees of Freedom	533.00	.	.
Number of Estimated Weights	533.00	.	.

Target=score2 Target Label=score2

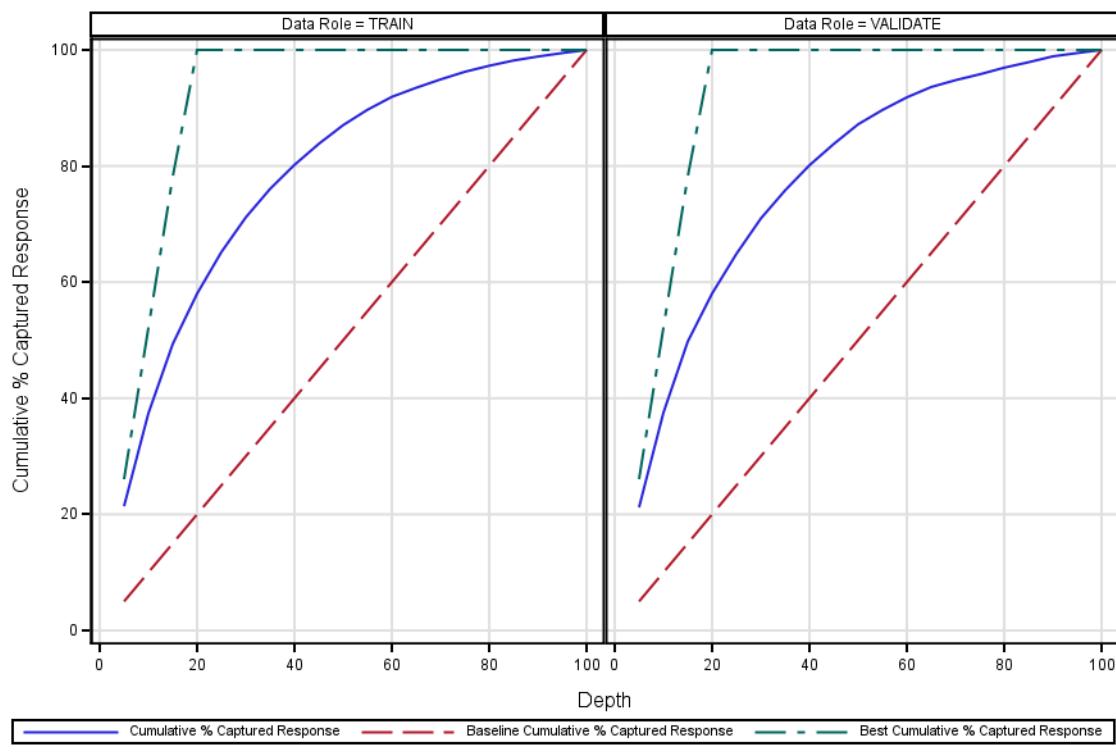
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	46656.13	.	.
Schwarz's Bayesian Criterion	51483.04	.	.
Average Squared Error	0.11	0.11	0.11
Maximum Absolute Error	0.99	0.99	0.99
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.33	0.33	0.33
Sum of Squared Errors	13987.61	4675.30	4706.44
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.11	.	.
Mean Squared Error	0.11	0.11	0.11
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.33	0.33	0.33
Average Error Function	0.36	0.36	0.36
Error Function	45590.13	15245.39	15338.99
Misclassification Rate	0.15	0.15	0.15
Number of Wrong Classifications	9354.00	3105.00	3150.00

SAS Enterprise Miner Report
Node=Neural Network 7HU
Model Iteration Plots

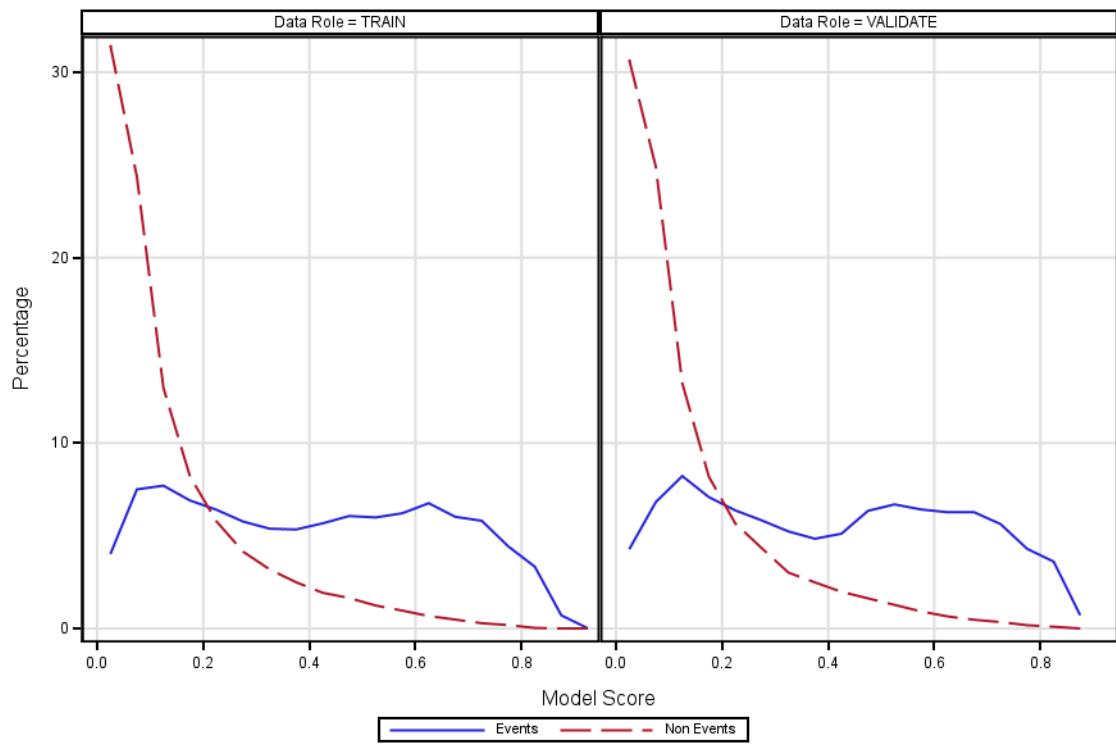




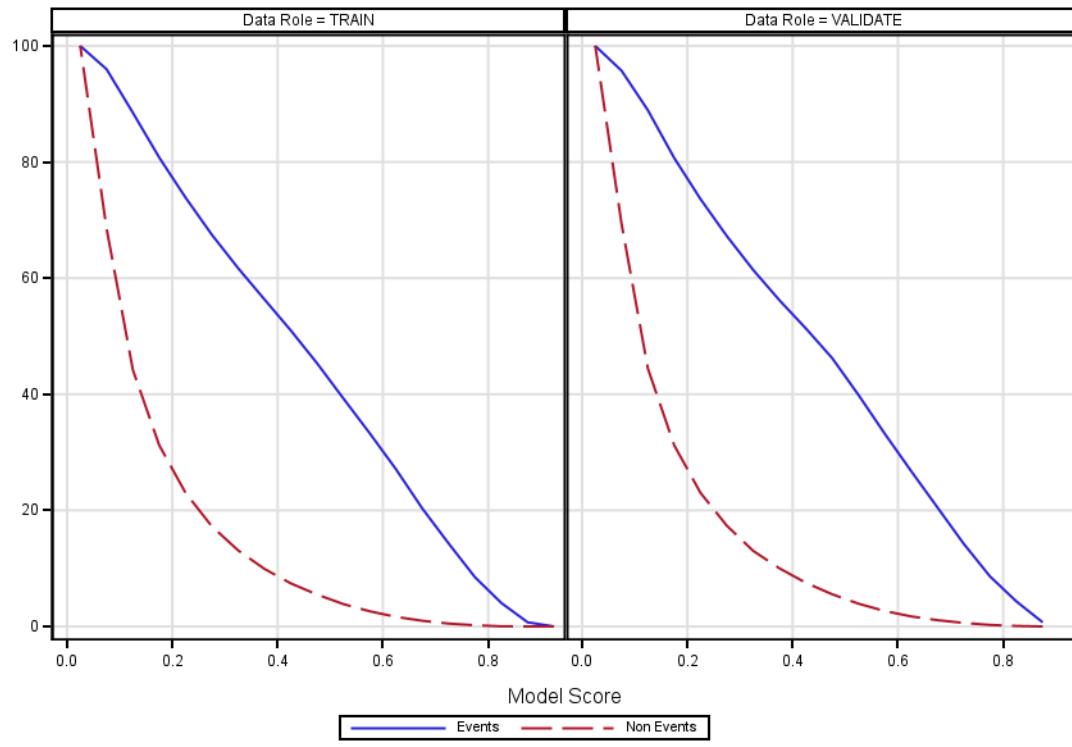
SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Score Distributions where TARGET='score2'



Node=Neural Network 7HU
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	1	0.00823	0.0000	0.008	0.000
0.85-0.90	86	0.70753	0.0000	0.716	0.000
0.80-0.85	405	3.33196	0.0313	4.048	0.031
0.75-0.80	538	4.42616	0.1837	8.474	0.215
0.70-0.75	706	5.80831	0.2833	14.282	0.498
0.65-0.70	732	6.02221	0.4807	20.304	0.979
0.60-0.65	821	6.75442	0.6702	27.059	1.649
0.55-0.60	755	6.21144	0.9653	33.270	2.615
0.50-0.55	728	5.98930	1.2369	39.260	3.851
0.45-0.50	737	6.06335	1.6433	45.323	5.495
0.40-0.45	689	5.66845	1.9267	50.991	7.421
0.35-0.40	649	5.33937	2.4934	56.331	9.915
0.30-0.35	654	5.38050	3.1870	61.711	13.102
0.25-0.30	701	5.76717	4.1465	67.478	17.248
0.20-0.25	778	6.40066	5.7742	73.879	23.023
0.15-0.20	839	6.90251	8.2031	80.782	31.226
0.10-0.15	936	7.70053	12.9729	88.482	44.198
0.05-0.10	912	7.50309	24.3532	95.985	68.552
0.00-0.05	488	4.01481	31.4483	100.000	100.000

Target Variable=score2 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	29	0.71587	0.0000	0.716	0.000
0.80-0.85	146	3.60405	0.0938	4.320	0.094
0.75-0.80	174	4.29524	0.1759	8.615	0.270
0.70-0.75	228	5.62824	0.3459	14.243	0.616
0.65-0.70	254	6.27006	0.4690	20.513	1.084
0.60-0.65	254	6.27006	0.6507	26.784	1.735
0.55-0.60	260	6.41817	0.9203	33.202	2.655
0.50-0.55	271	6.68971	1.2721	39.891	3.928
0.45-0.50	257	6.34411	1.6238	46.235	5.551
0.40-0.45	207	5.10985	1.9755	51.345	7.527
0.35-0.40	196	4.83831	2.4855	56.184	10.012
0.30-0.35	212	5.23328	3.0131	61.417	13.025
0.25-0.30	236	5.82572	4.3262	67.243	17.352
0.20-0.25	258	6.36880	5.6568	73.611	23.008
0.15-0.20	287	7.08467	8.1951	80.696	31.203
0.10-0.15	333	8.22019	13.2247	88.916	44.428
0.05-0.10	276	6.81313	24.9077	95.729	69.336
0.00-0.05	173	4.27055	30.6642	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 3HU Summary

Node id = Neural16
 Node label = Neural Network 3HU
 Meta path = lds6 => Part3 => Neural16
 Notes =

Node=Neural Network 3HU 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	MISCLASSIFICATION	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 3HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	8	PRECTOT PS QV2M T2M T2MDEW TS WS10M WS50M
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 3HU Model Fit Statistics

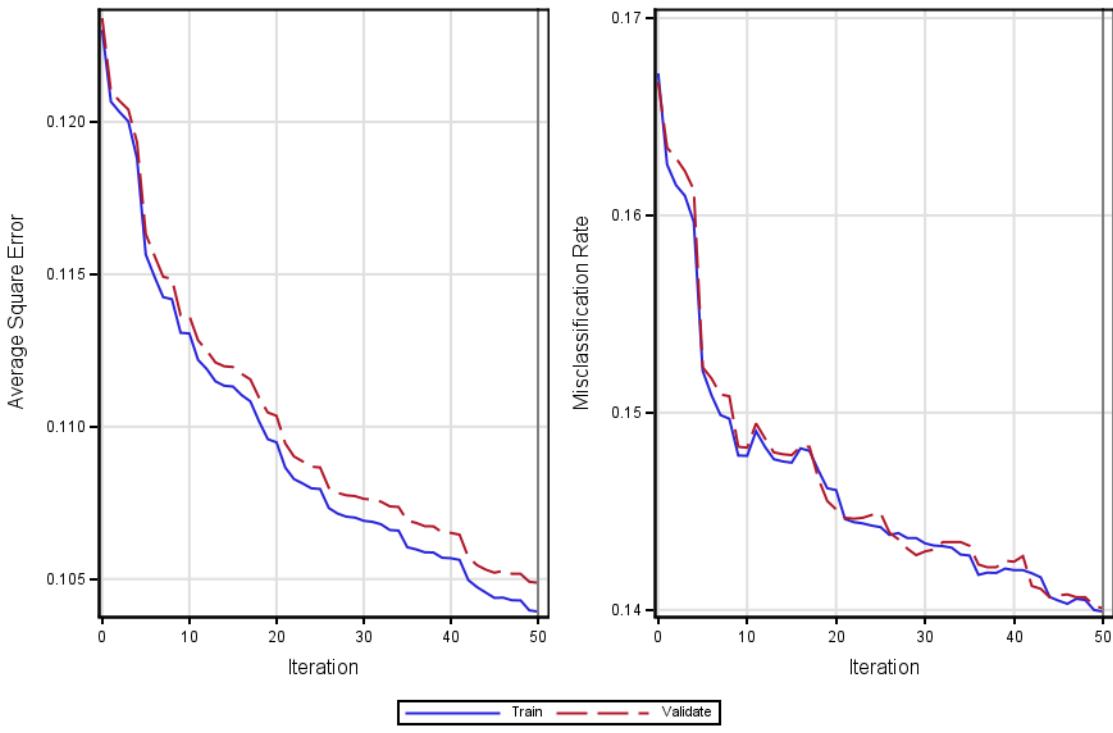
Target=score2 Target Label=score2

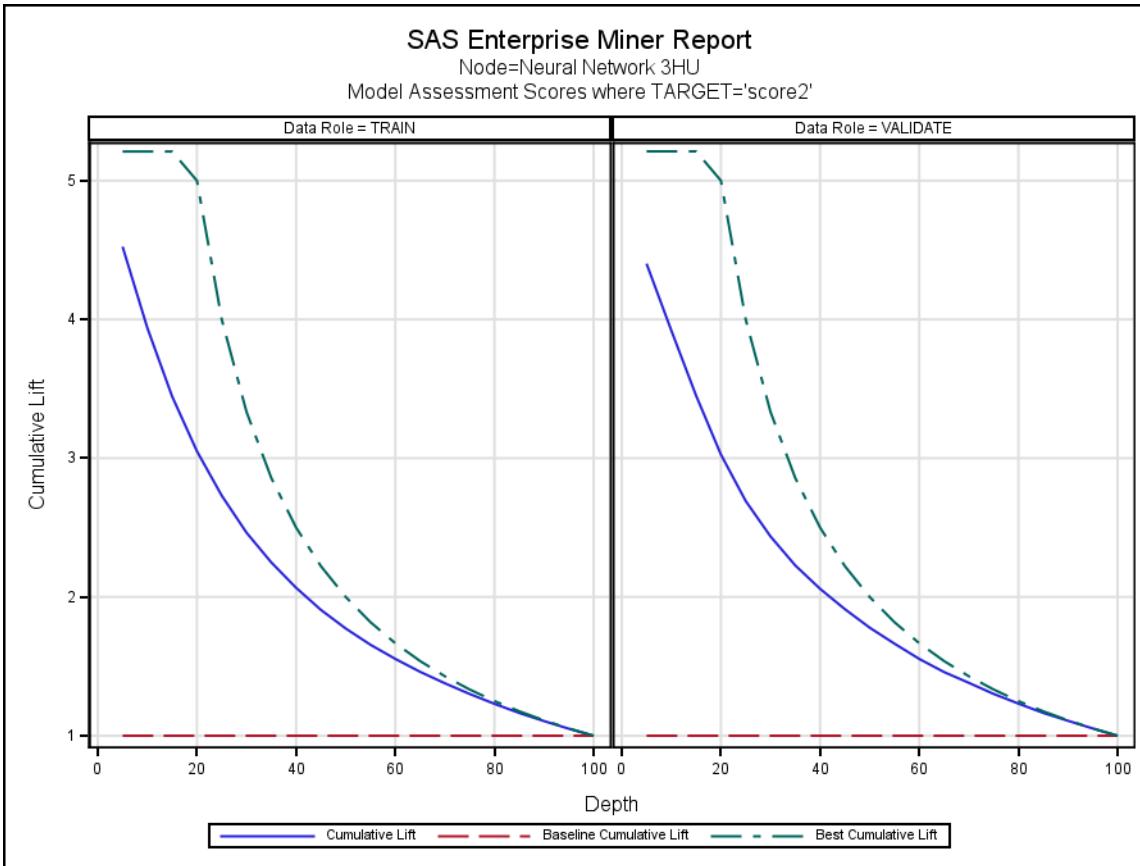
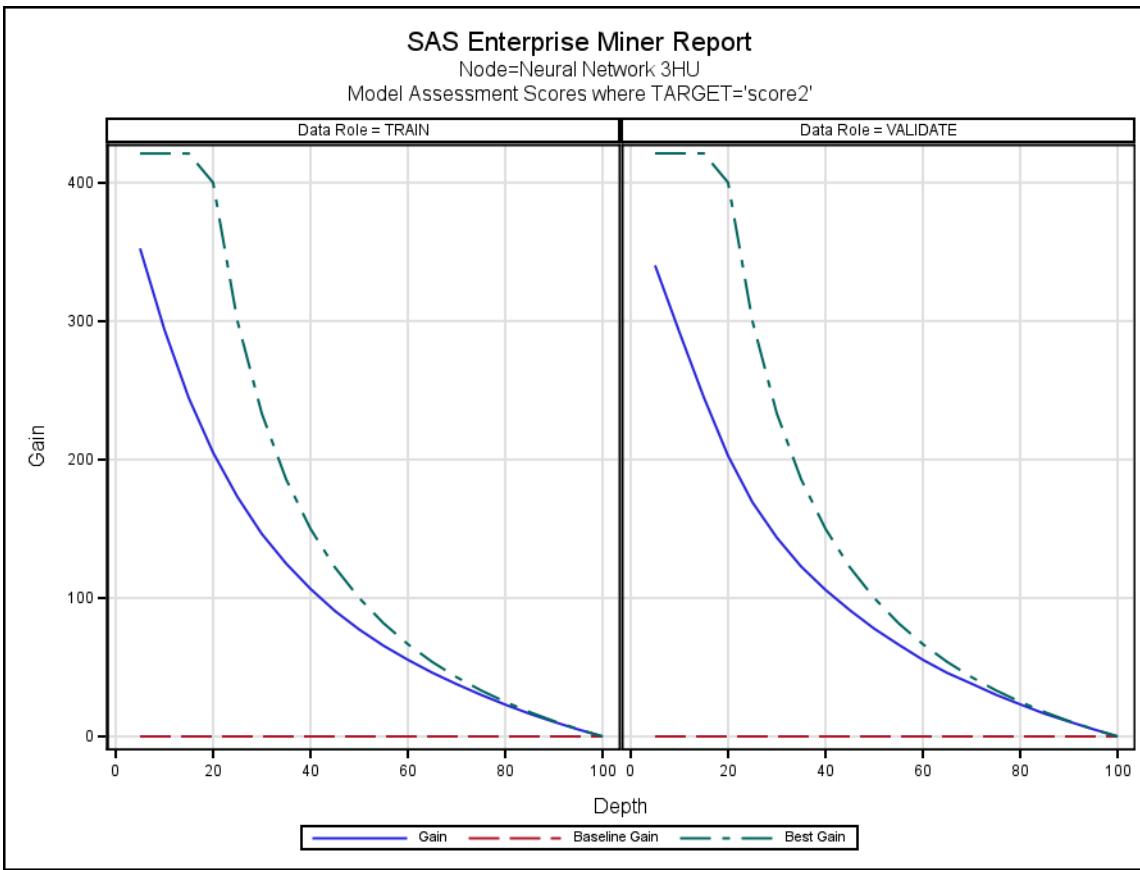
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	63102.00	.	.
Model Degrees of Freedom	229.00	.	.
Number of Estimated Weights	229.00	.	.

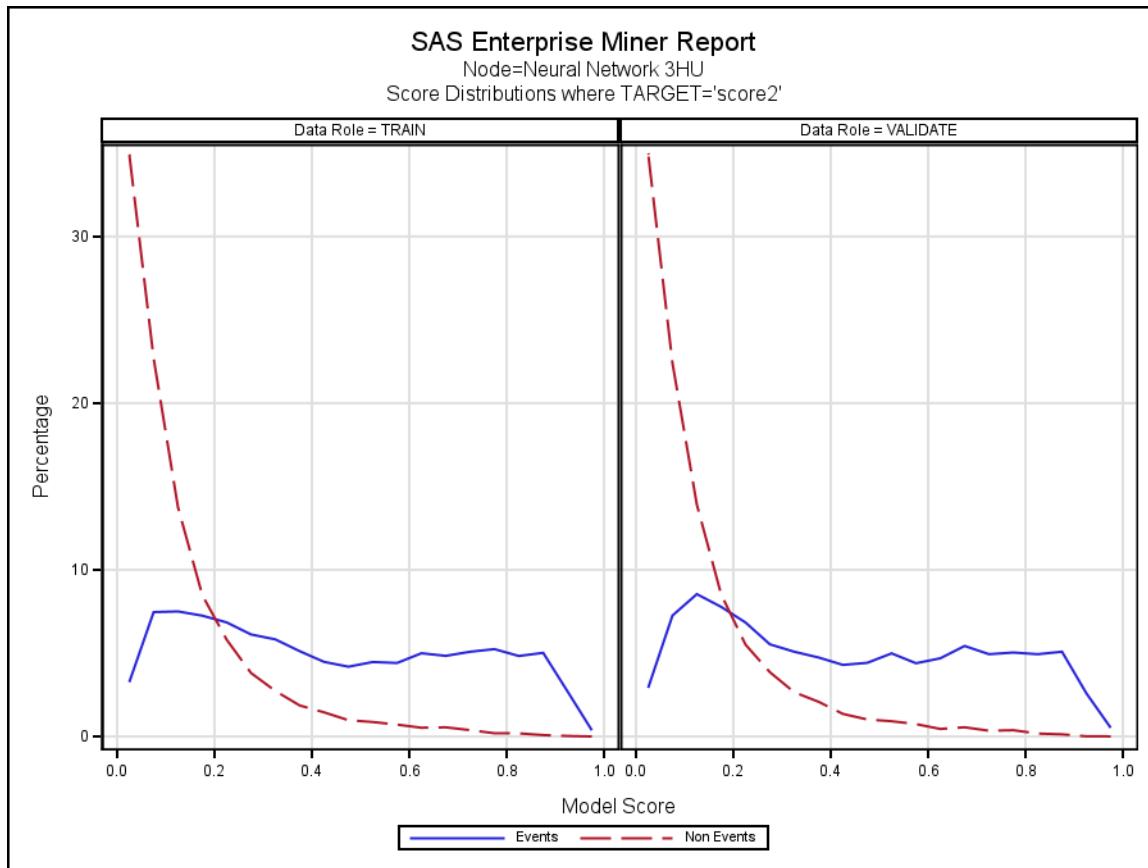
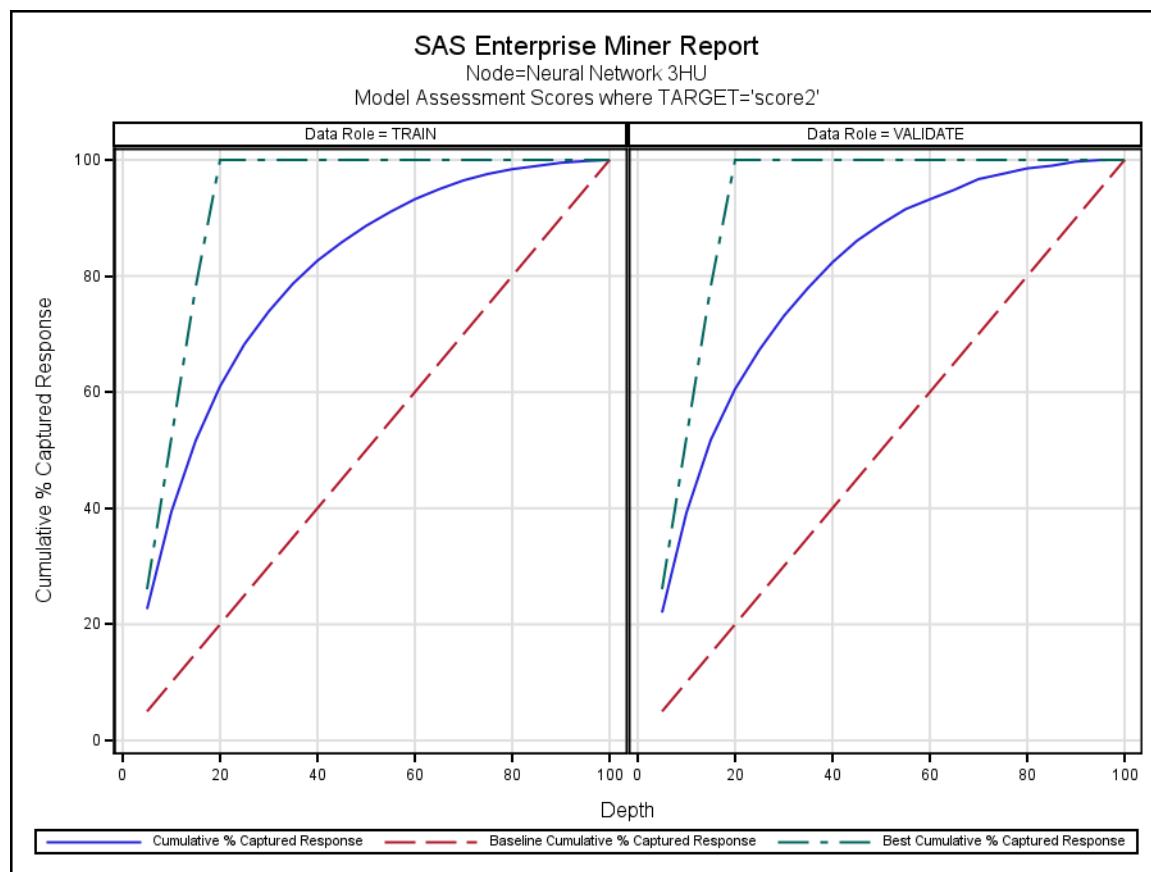
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	43444.88	.	.
Schwarz's Bayesian Criterion	45518.73	.	.
Average Squared Error	0.10	0.10	0.10
Maximum Absolute Error	0.99	0.99	0.99
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.32	0.32	0.32
Sum of Squared Errors	13164.17	4427.83	4423.16
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.10	.	.
Mean Squared Error	0.10	0.10	0.10
Root Final Prediction Error	0.32	.	.
Root Mean Squared Error	0.32	0.32	0.32
Average Error Function	0.34	0.34	0.34
Error Function	42986.88	14412.80	14431.41
Misclassification Rate	0.14	0.14	0.14
Number of Wrong Classifications	8861.00	2957.00	3000.00

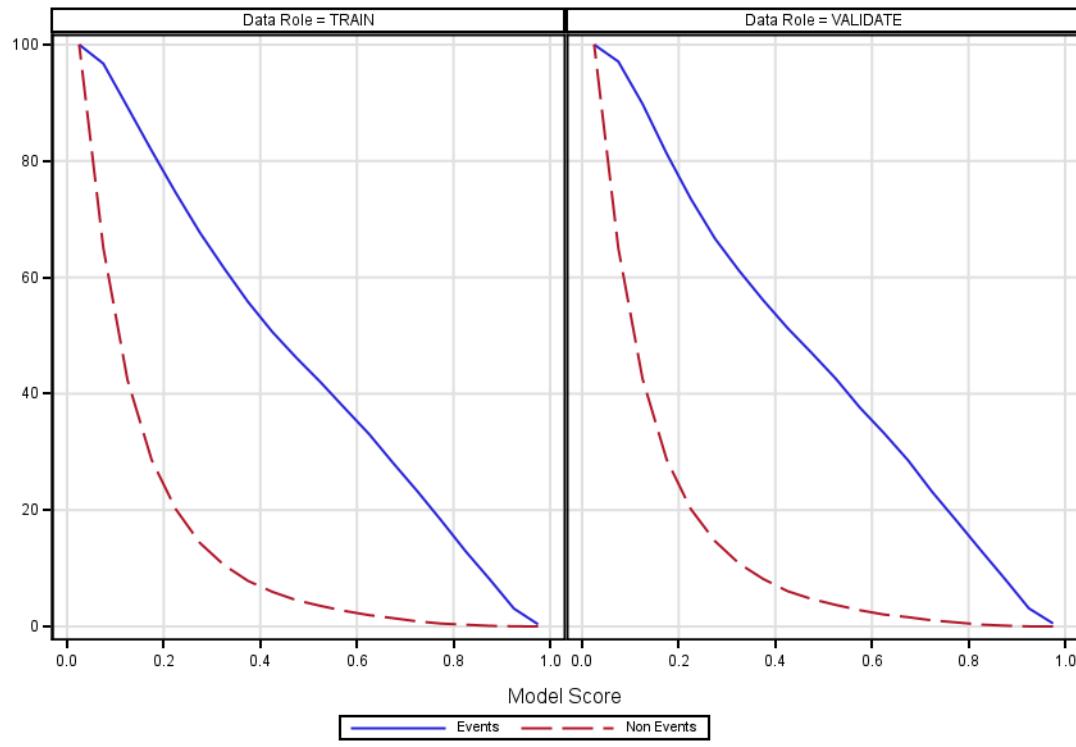
SAS Enterprise Miner Report
Node=Neural Network 3HU
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Neural Network 3HU
 Score Distributions where TARGET='score2'



Node=Neural Network 3HU
Score Distributions

Target Variable=score2 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	45	0.37022	0.0000	0.370	0.000
0.90-0.95	329	2.70671	0.0313	3.077	0.031
0.85-0.90	610	5.01851	0.0840	8.095	0.115
0.80-0.85	587	4.82929	0.1876	12.925	0.303
0.75-0.80	637	5.24064	0.1935	18.165	0.496
0.70-0.75	618	5.08433	0.3810	23.250	0.877
0.65-0.70	588	4.83752	0.5491	28.087	1.426
0.60-0.65	607	4.99383	0.5237	33.081	1.950
0.55-0.60	536	4.40971	0.7113	37.491	2.661
0.50-0.55	543	4.46730	0.8676	41.958	3.529
0.45-0.50	509	4.18758	0.9770	46.146	4.506
0.40-0.45	544	4.47552	1.4479	50.621	5.954
0.35-0.40	622	5.11724	1.8602	55.738	7.814
0.30-0.35	708	5.82476	2.7298	61.563	10.544
0.25-0.30	744	6.12094	3.8084	67.684	14.352
0.20-0.25	832	6.84492	5.8074	74.529	20.160
0.15-0.20	881	7.24805	8.4727	81.777	28.633
0.10-0.15	912	7.50309	13.7525	89.280	42.385
0.05-0.10	907	7.46195	22.6864	96.742	65.072
0.00-0.05	396	3.25792	34.9285	100.000	100.000

Target Variable=score2 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	21	0.51839	0.0059	0.518	0.006
0.90-0.95	105	2.59195	0.0117	3.110	0.018
0.85-0.90	206	5.08516	0.1290	8.196	0.147
0.80-0.85	200	4.93705	0.1759	13.133	0.322
0.75-0.80	204	5.03579	0.3752	18.168	0.698
0.70-0.75	200	4.93705	0.3459	23.105	1.043
0.65-0.70	220	5.43076	0.5510	28.536	1.594
0.60-0.65	190	4.69020	0.4514	33.226	2.046
0.55-0.60	178	4.39398	0.7445	37.620	2.790
0.50-0.55	202	4.98642	0.9145	42.607	3.705
0.45-0.50	179	4.41866	1.0200	47.025	4.725
0.40-0.45	174	4.29524	1.3541	51.321	6.079
0.35-0.40	192	4.73957	2.0810	56.060	8.160
0.30-0.35	206	5.08516	2.6555	61.145	10.815
0.25-0.30	224	5.52950	3.8572	66.675	14.673
0.20-0.25	277	6.83782	5.5103	73.513	20.183
0.15-0.20	315	7.77586	8.5175	81.289	28.700
0.10-0.15	346	8.54110	13.9164	89.830	42.617
0.05-0.10	294	7.25747	22.3929	97.087	65.010
0.00-0.05	118	2.91286	34.9903	100.000	100.000

SAS Enterprise Miner Report

Node=Model Comparison Decision Tree Summary

Node id = MdlComp18
 Node label = Model Comparison Decision Tree
 Meta path = lds6 => Part3 => Tree17 => MdlComp18
 Notes =

Node=Model Comparison Decision Tree 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Decision Tree B4D16		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree17		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison Decision Tree Variable Summary

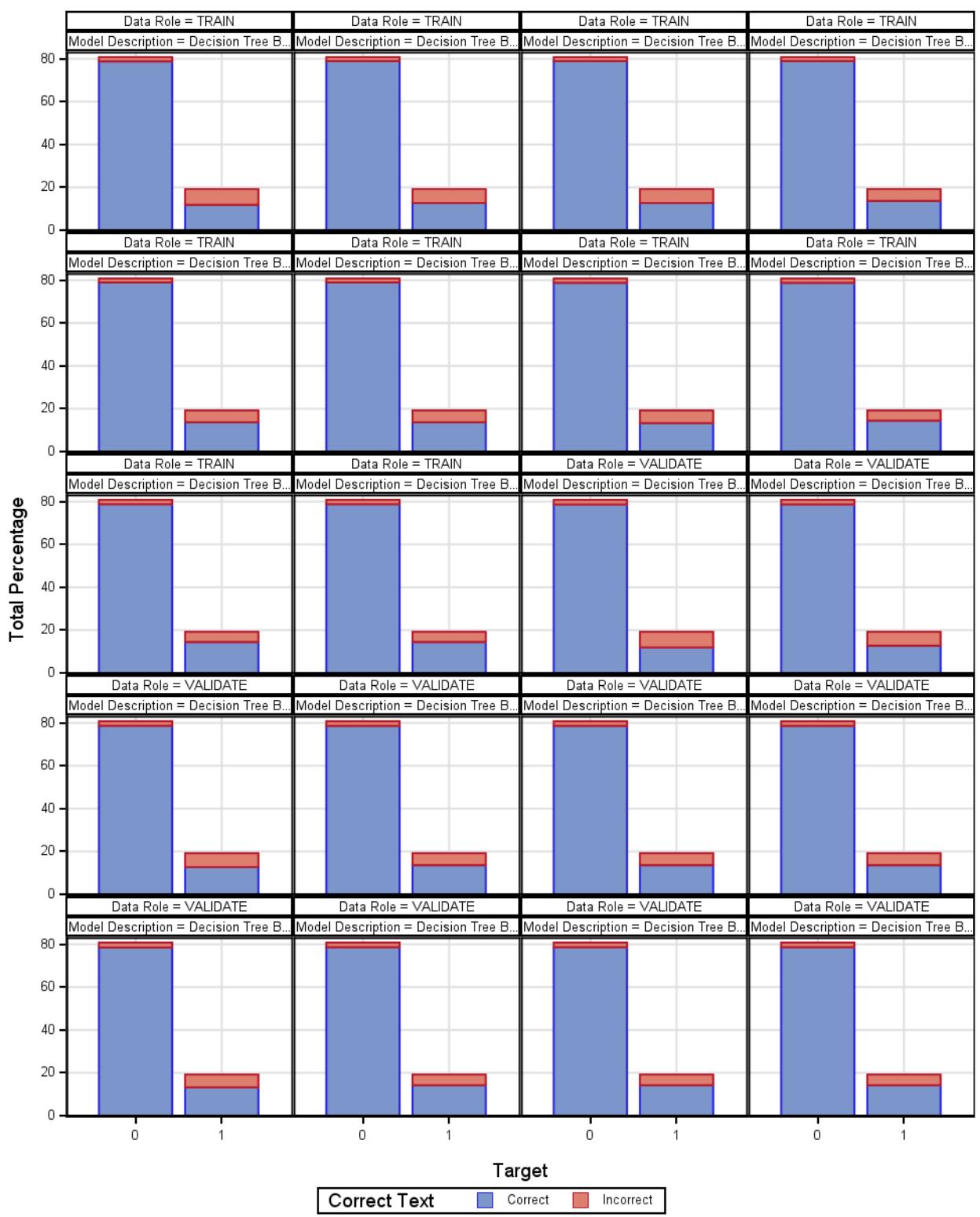
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison Decision Tree 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	Tree17	Tree17	Decision Tree B4D16	score2	score2	0.071625	0.053424	0.068071	0.781
	Tree37	Tree37	Decision Tree B4D8	score2	score2	0.071625	0.053424	0.068071	0.781
	Tree38	Tree38	Decision Tree B4D12	score2	score2	0.071625	0.053424	0.068071	0.781
	Tree33	Tree33	Decision Tree B3D12	score2	score2	0.078162	0.059022	0.074024	0.746
	Tree35	Tree35	Decision Tree B3D16	score2	score2	0.078162	0.059022	0.074024	0.746
	Tree36	Tree36	Decision Tree B3D20	score2	score2	0.078162	0.059022	0.074024	0.746
	Tree16	Tree16	Decision Tree B3D8	score2	score2	0.082804	0.063189	0.079645	0.731
	Tree31	Tree31	Decision Tree B2D14	score2	score2	0.086310	0.066783	0.083861	0.702
	Tree32	Tree32	Decision Tree B2D20	score2	score2	0.086310	0.066783	0.083861	0.702
	Tree27	Tree27	Decision Tree B2D10	score2	score2	0.094552	0.073735	0.093446	0.672

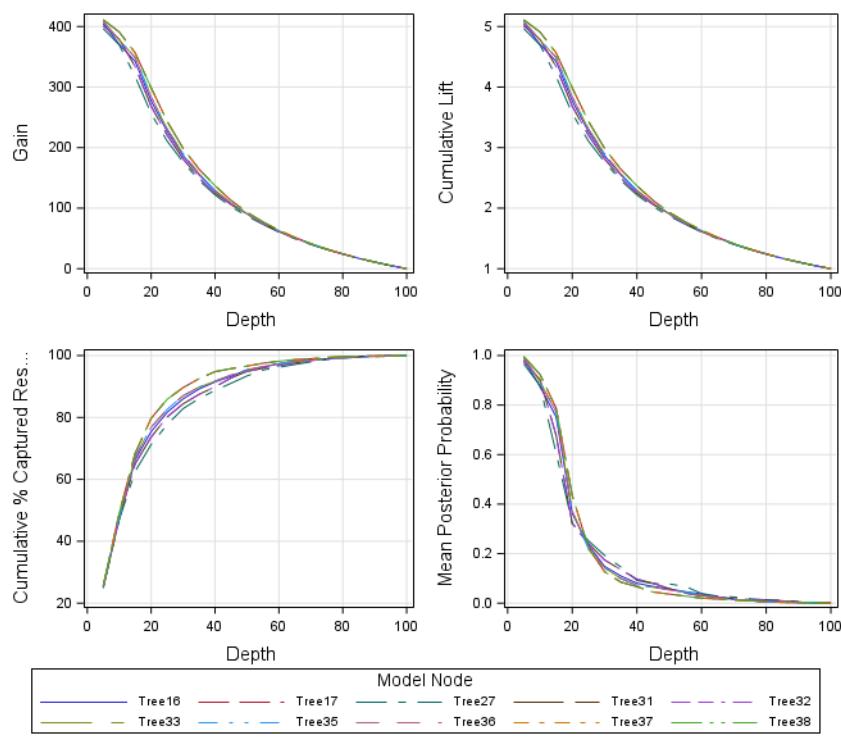
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Tree17	Tree17	Decision Tree B4D16	score2	score2	0.071625	0.057236	0.071625	0.763
	Tree37	Tree37	Decision Tree B4D8	score2	score2	0.071625	0.057236	0.071625	0.763
	Tree38	Tree38	Decision Tree B4D12	score2	score2	0.071625	0.057236	0.071625	0.763
	Tree33	Tree33	Decision Tree B3D12	score2	score2	0.078162	0.062530	0.078162	0.738
	Tree35	Tree35	Decision Tree B3D16	score2	score2	0.078162	0.062530	0.078162	0.738
	Tree36	Tree36	Decision Tree B3D20	score2	score2	0.078162	0.062530	0.078162	0.738
	Tree16	Tree16	Decision Tree B3D8	score2	score2	0.082804	0.065808	0.082804	0.728
	Tree31	Tree31	Decision Tree B2D14	score2	score2	0.086310	0.069071	0.086310	0.699
	Tree32	Tree32	Decision Tree B2D20	score2	score2	0.086310	0.069071	0.086310	0.699
	Tree27	Tree27	Decision Tree B2D10	score2	score2	0.094552	0.074875	0.094552	0.669

SAS Enterprise Miner Report
Node=Model Comparison Decision Tree
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



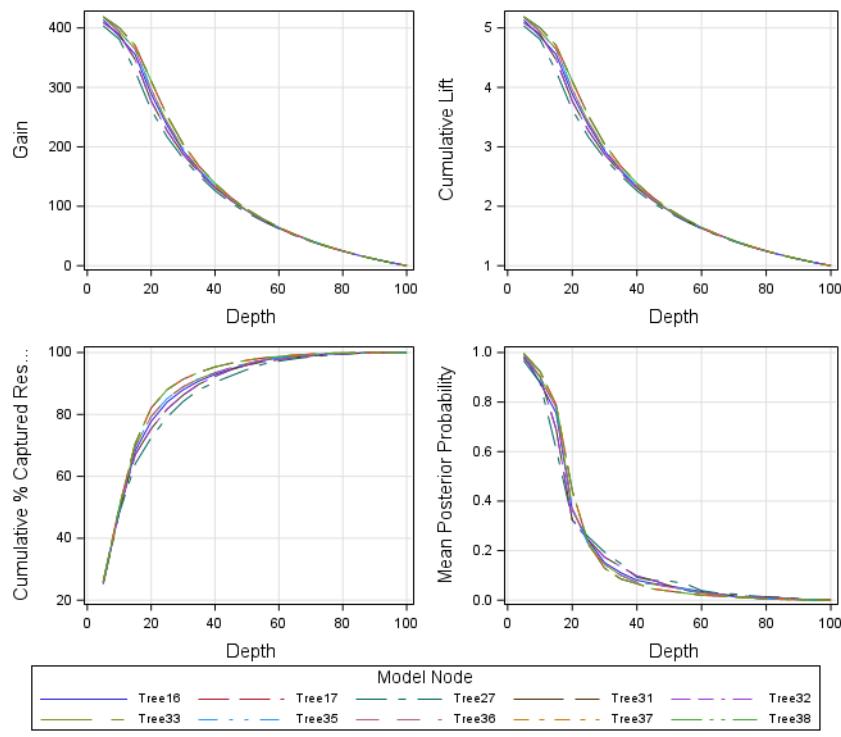
SAS Enterprise Miner Report

Node=Model Comparison Decision Tree
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



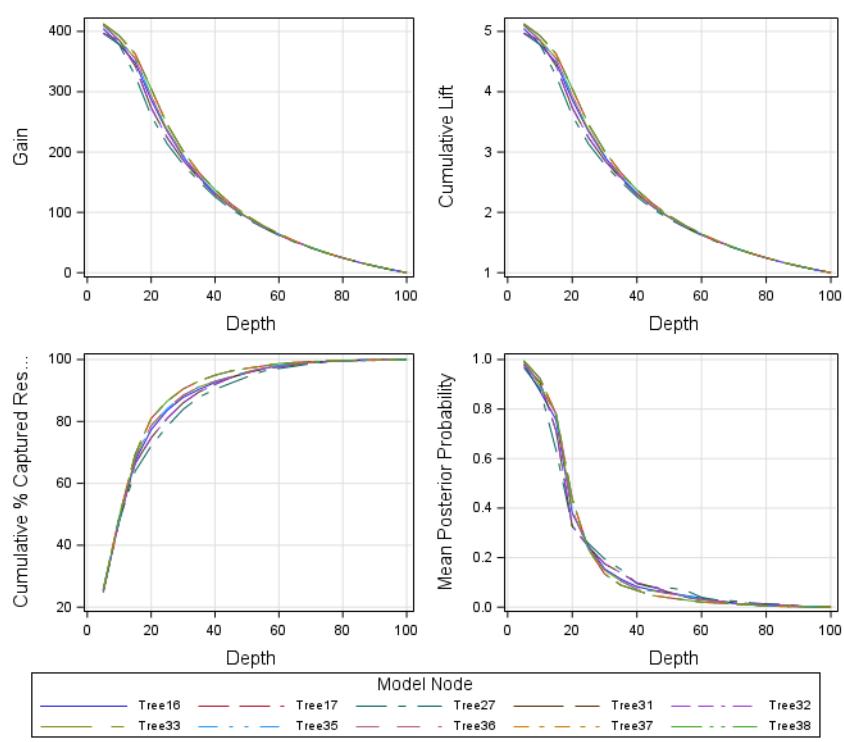
SAS Enterprise Miner Report

Node=Model Comparison Decision Tree
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'

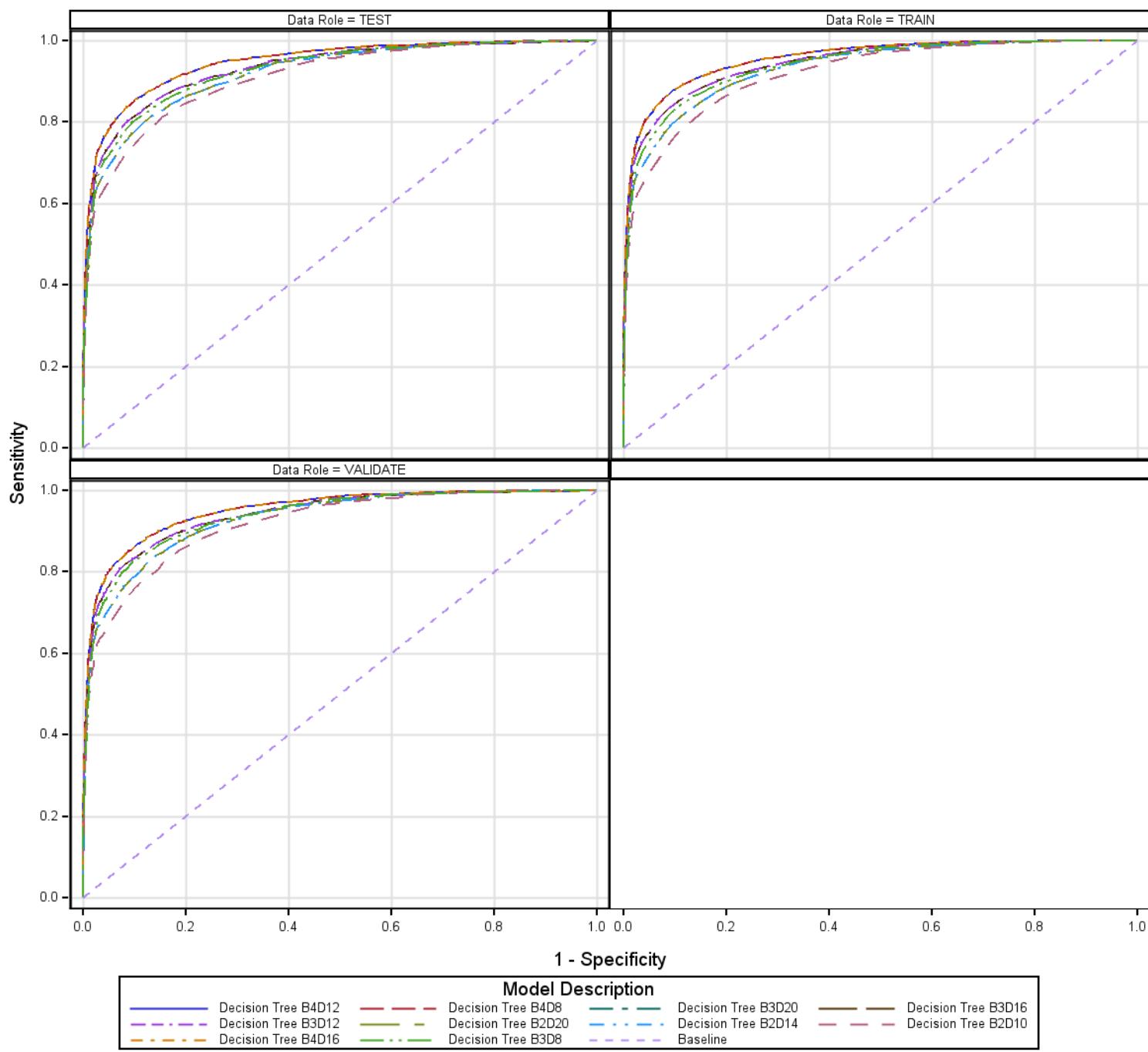


SAS Enterprise Miner Report

Node=Model Comparison Decision Tree
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'



SAS Enterprise Miner Report
Node=Model Comparison Decision Tree
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Model Comparison Regression Summary

Node id = MdlComp3
 Node label = Model Comparison Regression
 Meta path = lds6 => Part3 => Reg16 => MdlComp3
 Notes =

Node=Model Comparison Regression 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Regression Exhaustive		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Reg16		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison Regression Variable Summary

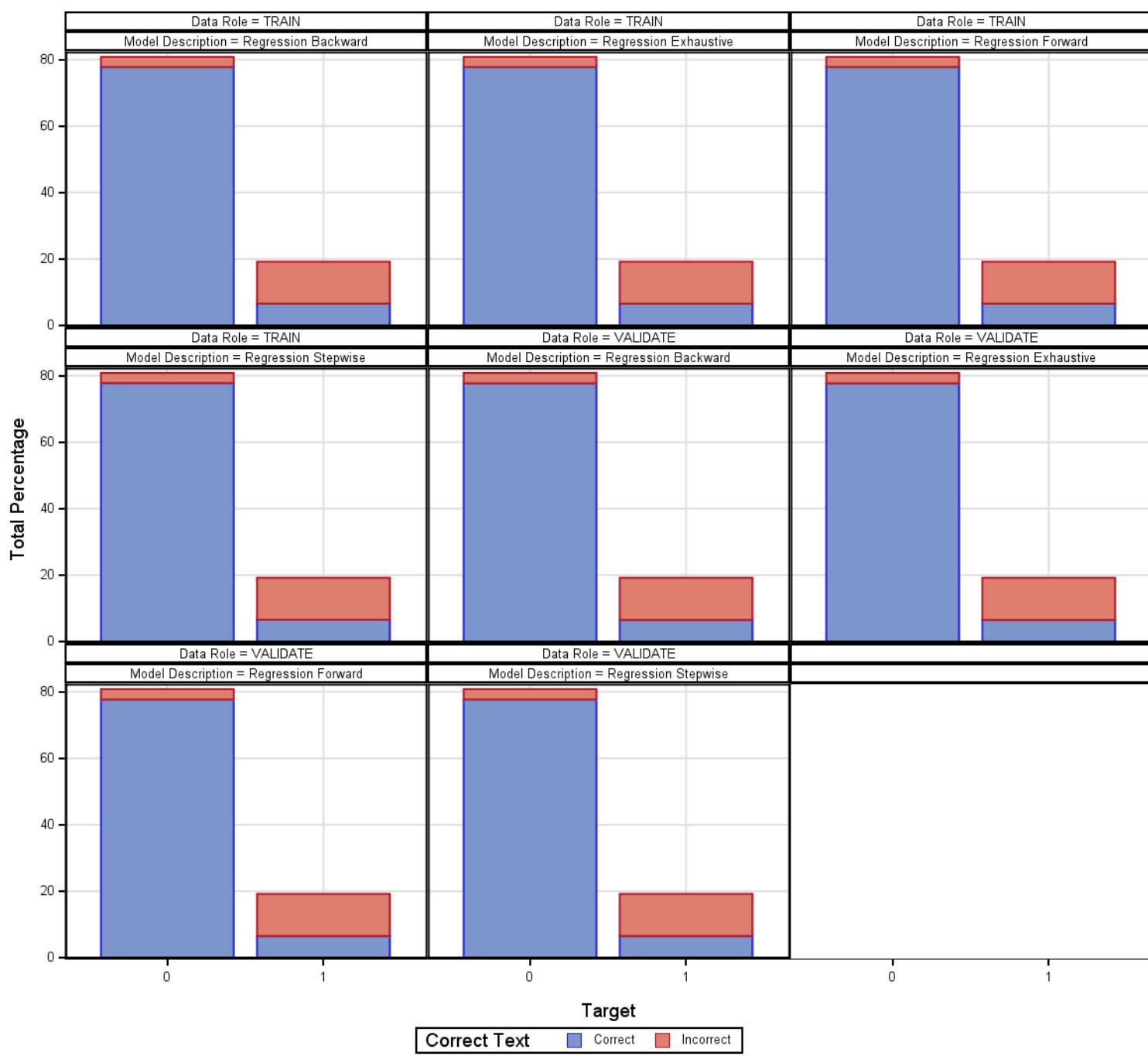
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison Regression 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	Reg16	Reg16	Regression Exhaustive	score2	score2	0.15793	0.11586	0.15665	0.479
	Reg2	Reg2	Regression Forward	score2	score2	0.15808	0.11587	0.15662	0.479
	Reg3	Reg3	Regression Backward	score2	score2	0.15808	0.11587	0.15662	0.479
	Reg4	Reg4	Regression Stepwise	score2	score2	0.15808	0.11587	0.15662	0.479

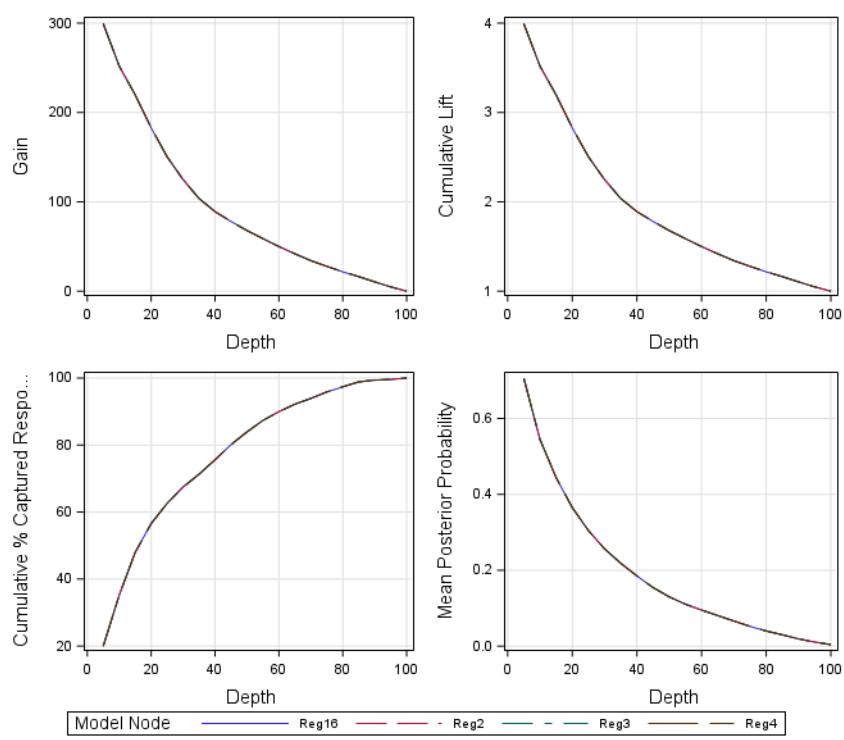
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Reg16	Reg16	Regression Exhaustive	score2	score2	0.15793	0.11606	0.15793	0.474
	Reg2	Reg2	Regression Forward	score2	score2	0.15808	0.11609	0.15808	0.473
	Reg3	Reg3	Regression Backward	score2	score2	0.15808	0.11609	0.15808	0.473
	Reg4	Reg4	Regression Stepwise	score2	score2	0.15808	0.11609	0.15808	0.473

SAS Enterprise Miner Report
Node=Model Comparison Regression
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



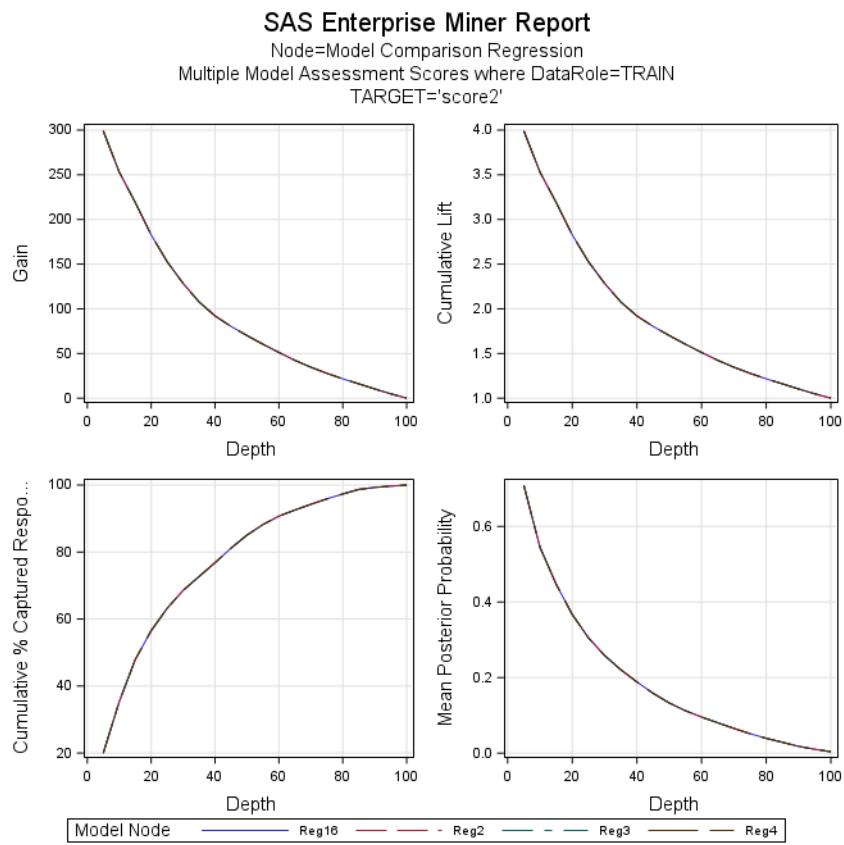
SAS Enterprise Miner Report

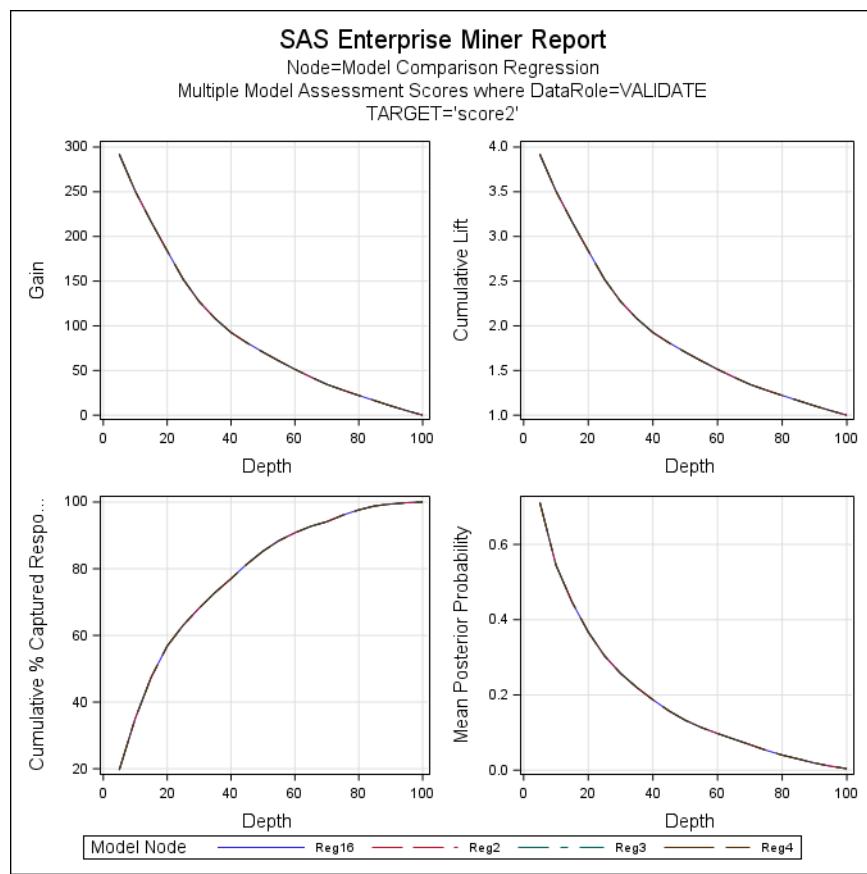
Node=Model Comparison Regression
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



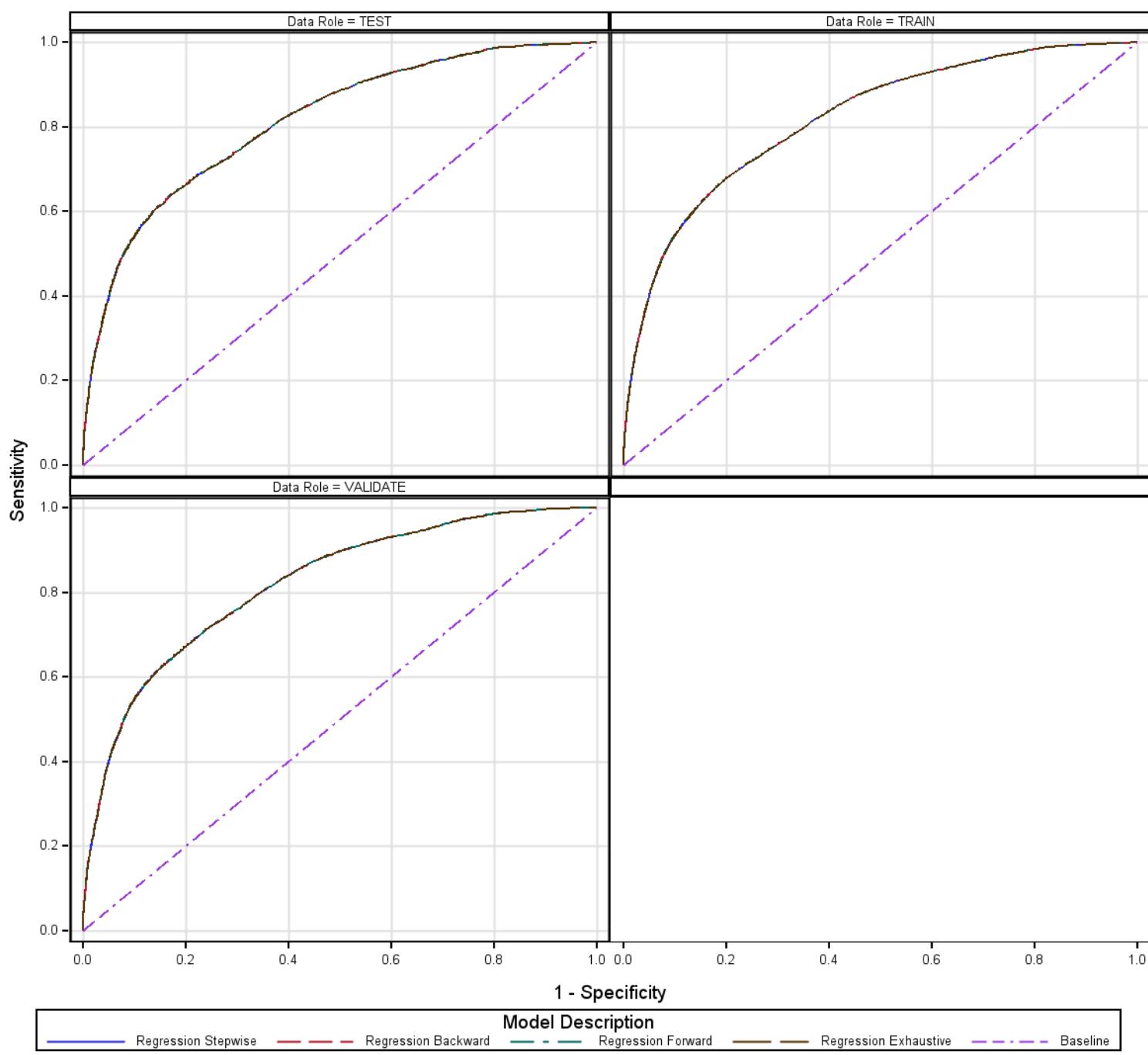
SAS Enterprise Miner Report

Node=Model Comparison Regression
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'





SAS Enterprise Miner Report
Node=Model Comparison Regression
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Model Comparison NeuralNet Summary

Node id = MdlComp4
 Node label = Model Comparison NeuralNet
 Meta path = lds6 => Part3 => Neural16 => MdlComp4
 Notes =

Node=Model Comparison NeuralNet 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Neural Network 3HU		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Neural16		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison NeuralNet Variable Summary

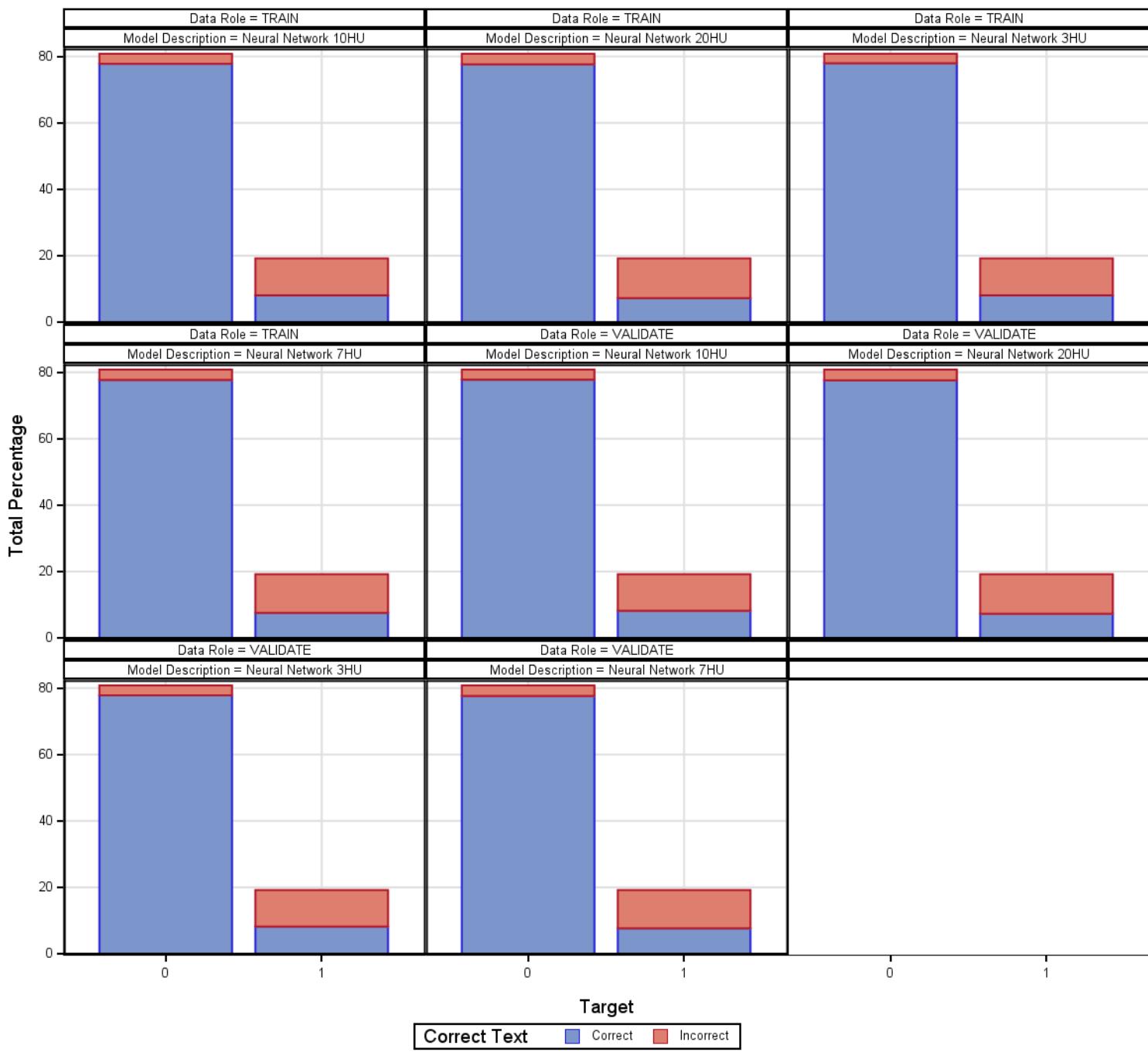
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison NeuralNet 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	Neural16	Neural16	Neural Network 3HU	score2	score2	0.14008	0.10393	0.13992	0.544
	Neural3	Neural3	Neural Network 10HU	score2	score2	0.14050	0.10450	0.14154	0.548
	Neural2	Neural2	Neural Network 7HU	score2	score2	0.14709	0.11043	0.14770	0.512
	Neural7	Neural7	Neural Network 20HU	score2	score2	0.15154	0.11334	0.15151	0.487

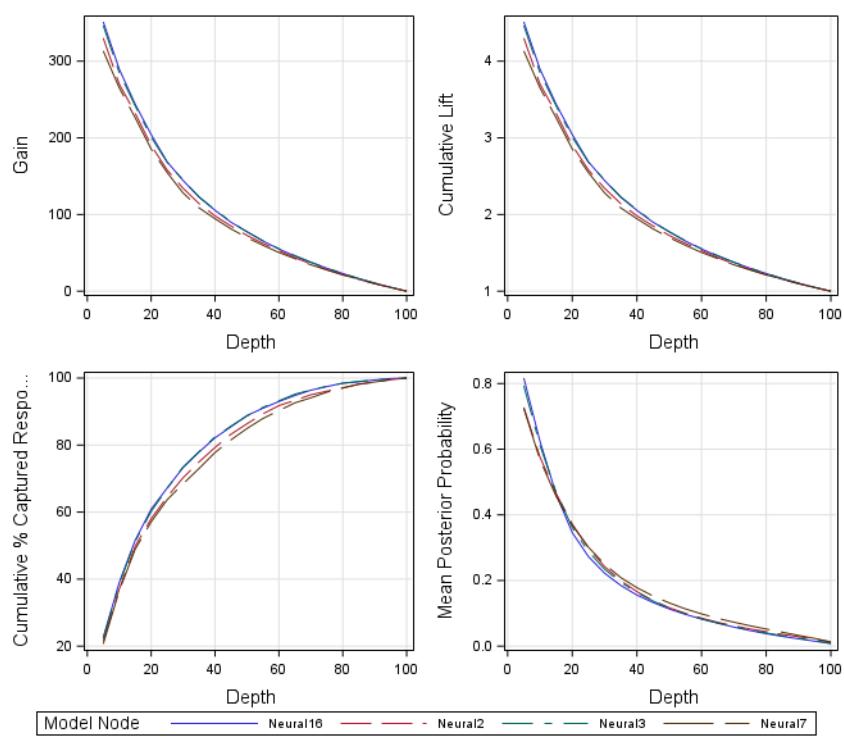
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Neural16	Neural16	Neural Network 3HU	score2	score2	0.14008	0.10488	0.14008	0.534
	Neural3	Neural3	Neural Network 10HU	score2	score2	0.14050	0.10514	0.14050	0.538
	Neural2	Neural2	Neural Network 7HU	score2	score2	0.14709	0.11074	0.14709	0.507
	Neural7	Neural7	Neural Network 20HU	score2	score2	0.15154	0.11381	0.15154	0.483

SAS Enterprise Miner Report
Node=Model Comparison NeuralNet
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



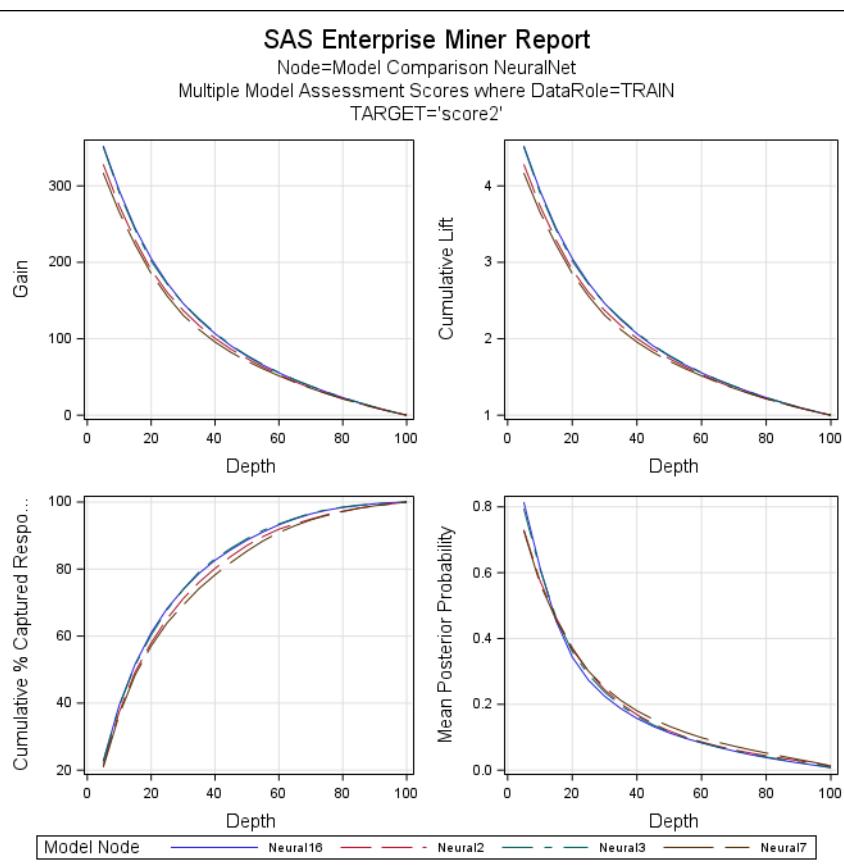
SAS Enterprise Miner Report

Node=Model Comparison NeuralNet
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



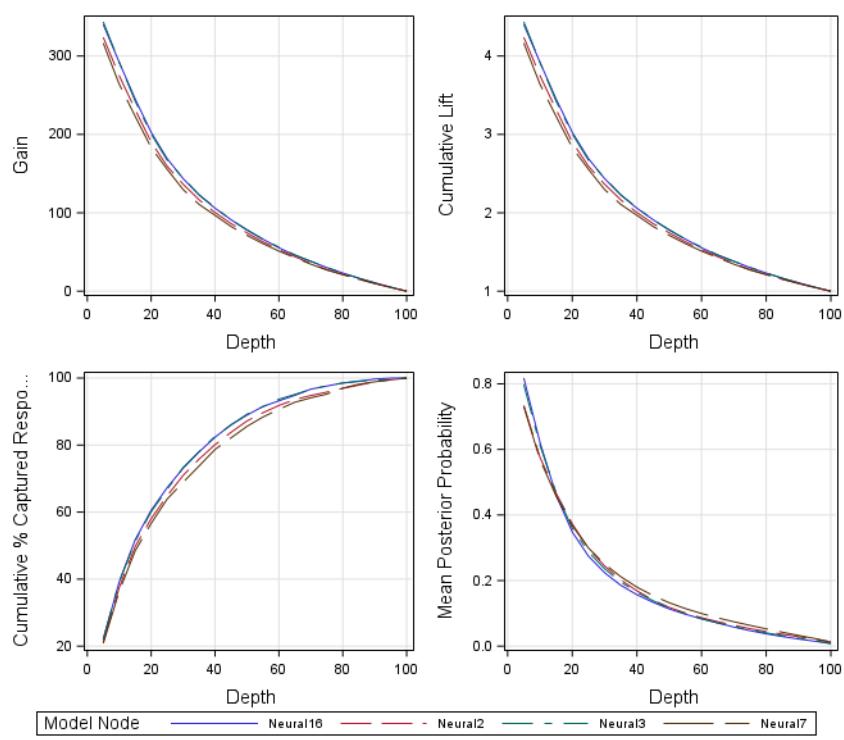
SAS Enterprise Miner Report

Node=Model Comparison NeuralNet
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'

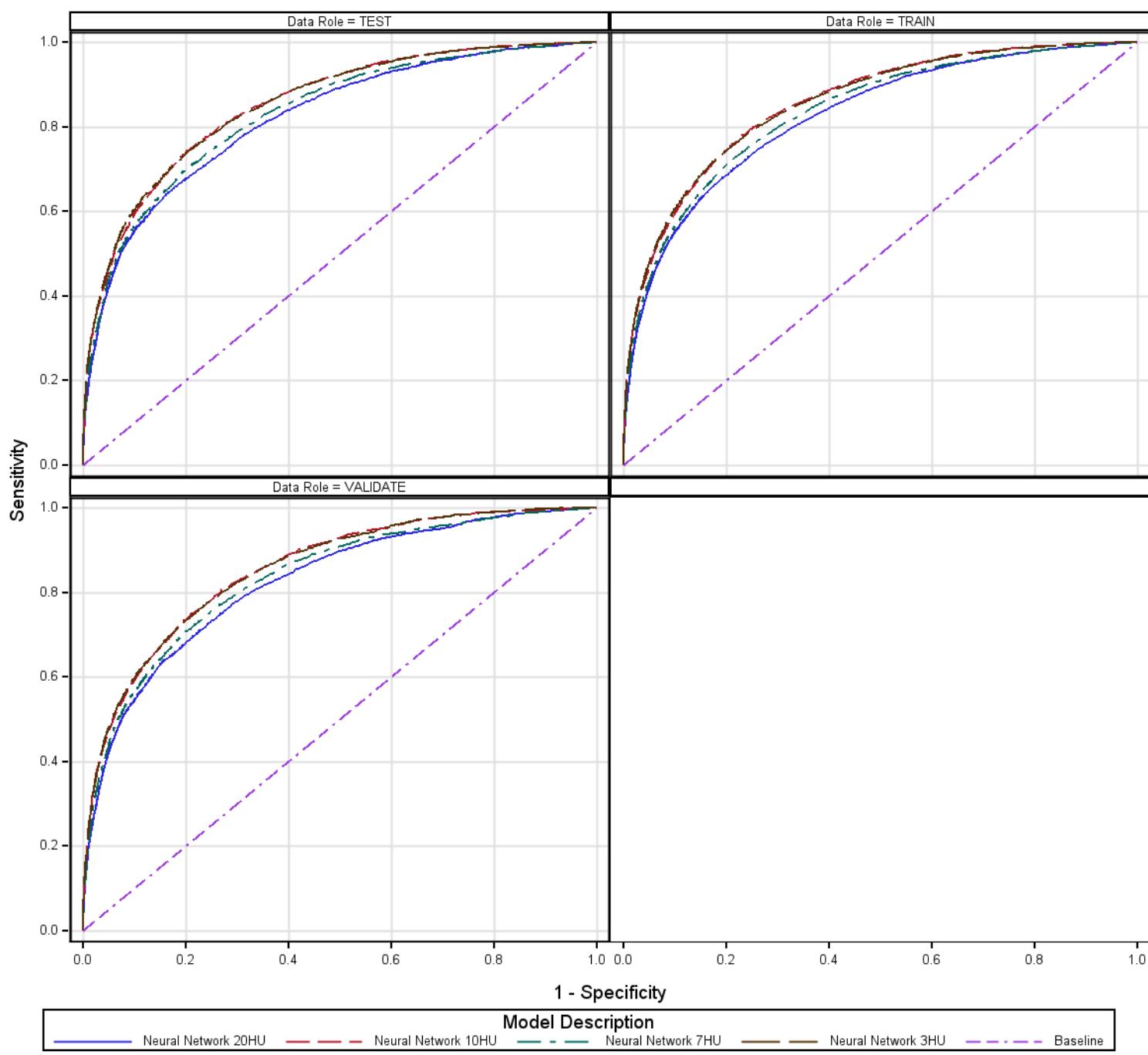


SAS Enterprise Miner Report

Node=Model Comparison NeuralNet

Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'

SAS Enterprise Miner Report
Node=Model Comparison NeuralNet
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=DROUGHT_TRAIN Summary

Node id = lds
 Node label = DROUGHT_TRAIN
 Meta path = lds
 Notes =

Node=DROUGHT_TRAIN Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	hbath		NBytes	24577024	.
ApplyIntervalLevelLowerLimit	Y		DsId	droughttrain		NCols	27	.
ApplyMaxClassLevels	Y		DsModifiedBy	hbath		NObs	105553	.
ApplyMaxPercentMissing	Y		DsModifyDate	2049577990.6		NewTable		
CMeta	WORK.M03A4MGX		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	VIEW	
DBPassThrough	Y		DsSampleSizeType			Role	RAW	TRAIN
Data	LOCALLIB.DROUGHT_TRAIN		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y		SampleSizeObs	10000	
DataSource	droughttrain		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	LOCALLIB		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Y		MaxPercentMissing	50		Segment		
DsCreateDate	2049577990.5		MetaAdvisor	BASIC		Table	DROUGHT_TRAIN	

Node=DROUGHT_TRAIN Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	DROUGHT_TRAIN	Date Created	10Dec2024:17:48:23	Data Size	24577024
Data Type	DATA	Date Modified	10Dec2024:17:48:23	Role	RAW
Data Label		Number Rows	105553	Segment	
Engine	BASE	Number Columns	27	Data Library	LOCALLIB

Node=DROUGHT_TRAIN Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
PRECTOT	PRECTOT	INPUT	INTERVAL	N	8	BEST.	
PS	PS	INPUT	INTERVAL	N	8	BEST.	
QV2M	QV2M	INPUT	INTERVAL	N	8	BEST.	
T2M	T2M	INPUT	INTERVAL	N	8	BEST.	
T2MDEW	T2MDEW	INPUT	INTERVAL	N	8	BEST.	
T2MWET	T2MWET	INPUT	INTERVAL	N	8	BEST.	
T2M_MAX	T2M_MAX	INPUT	INTERVAL	N	8	BEST.	
T2M_MIN	T2M_MIN	INPUT	INTERVAL	N	8	BEST.	
T2M_RANGE	T2M_RANGE	INPUT	INTERVAL	N	8	BEST.	
TS	TS	INPUT	INTERVAL	N	8	BEST.	
WS10M	WS10M	INPUT	INTERVAL	N	8	BEST.	

Name	Label	Role	Level	Type	Length	Format	Creator
WS10M_MAX	WS10M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS10M_MIN	WS10M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS10M_RANGE	WS10M_RANGE	INPUT	INTERVAL	N	8	BEST.	
WS50M	WS50M	INPUT	INTERVAL	N	8	BEST.	
WS50M_MAX	WS50M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS50M_MIN	WS50M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS50M_RANGE	WS50M_RANGE	INPUT	INTERVAL	N	8	BEST.	
country	country	REJECTED	NOMINAL	C	13	\$13.	
date	date	TIMEID	INTERVAL	N	8	MMDDYY10.0	
fips	fips	REJECTED	NOMINAL	N	8	BEST.	
month	month	INPUT	ORDINAL	N	8	BEST.	
score	score	REJECTED	INTERVAL	N	8	BEST.	
score1	score1	REJECTED	ORDINAL	N	8	BEST.	
score2	score2	TARGET	BINARY	N	8	BEST.	
state	state	INPUT	NOMINAL	C	14	\$14.	
year	year	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	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
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
REJECTED	INTERVAL	1	score
REJECTED	NOMINAL	2	country fips
REJECTED	ORDINAL	1	score1
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M_WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

SAS Enterprise Miner Report

Node=Decision Tree B4D16 Summary

Node id = Tree3
 Node label = Decision Tree B4D16
 Meta path = Ids => Part => Tree3
 Notes =

Node=Decision Tree B4D16 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	16	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 B4D16 Variable Summary

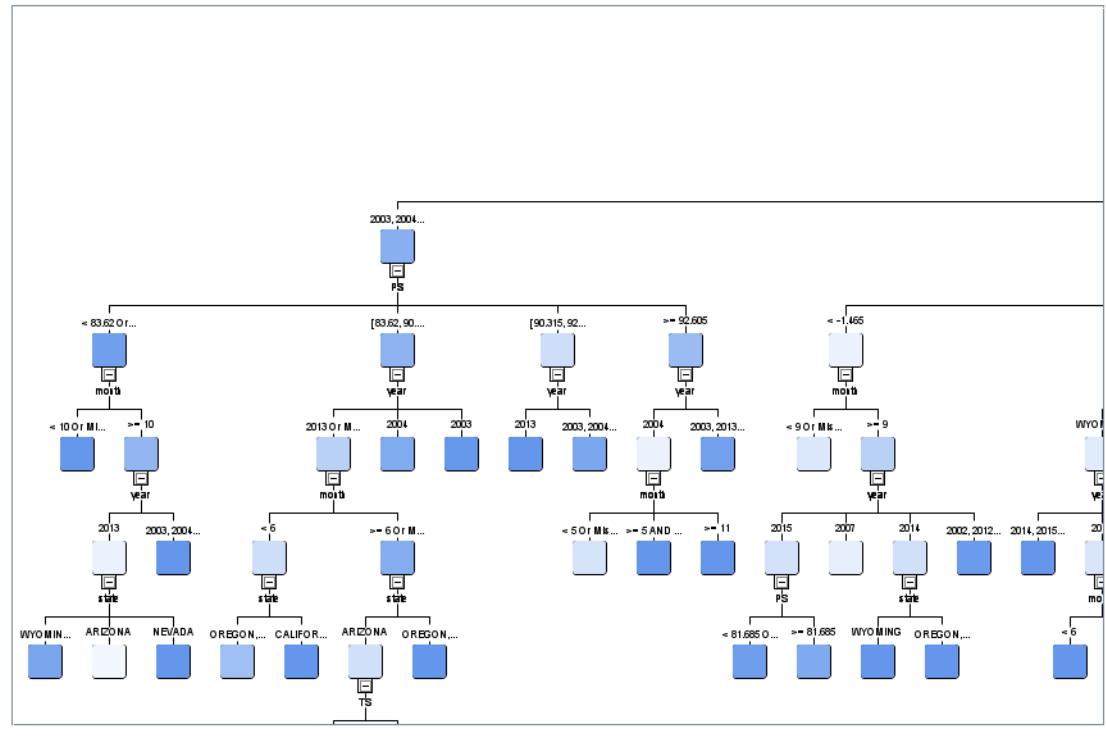
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D16 Model Fit Statistics

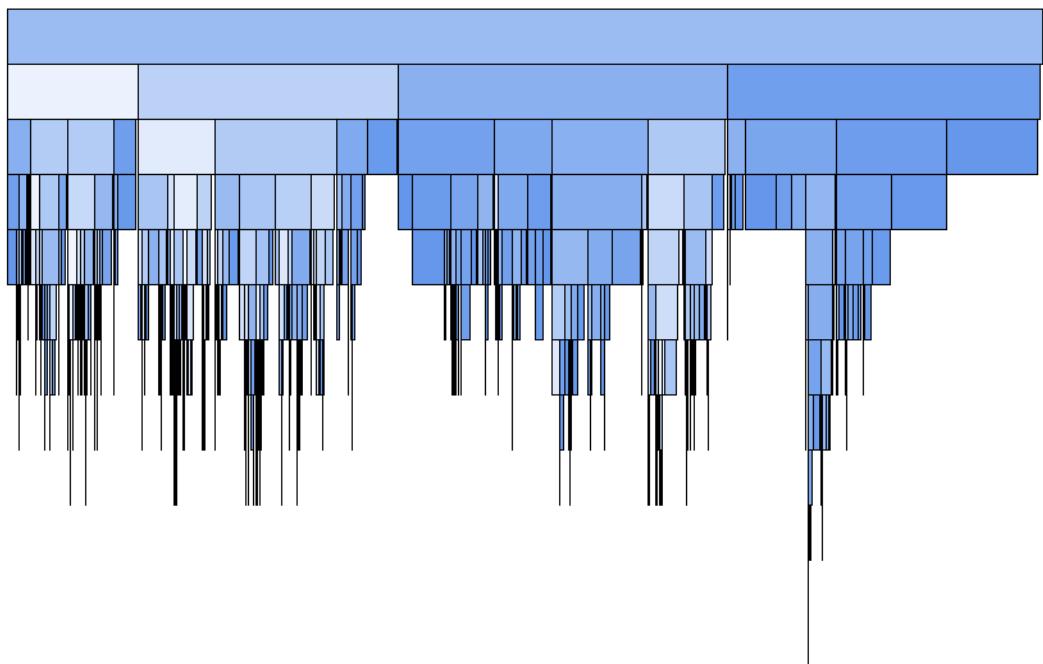
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6840.13	2478.29	2607.24
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.25
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

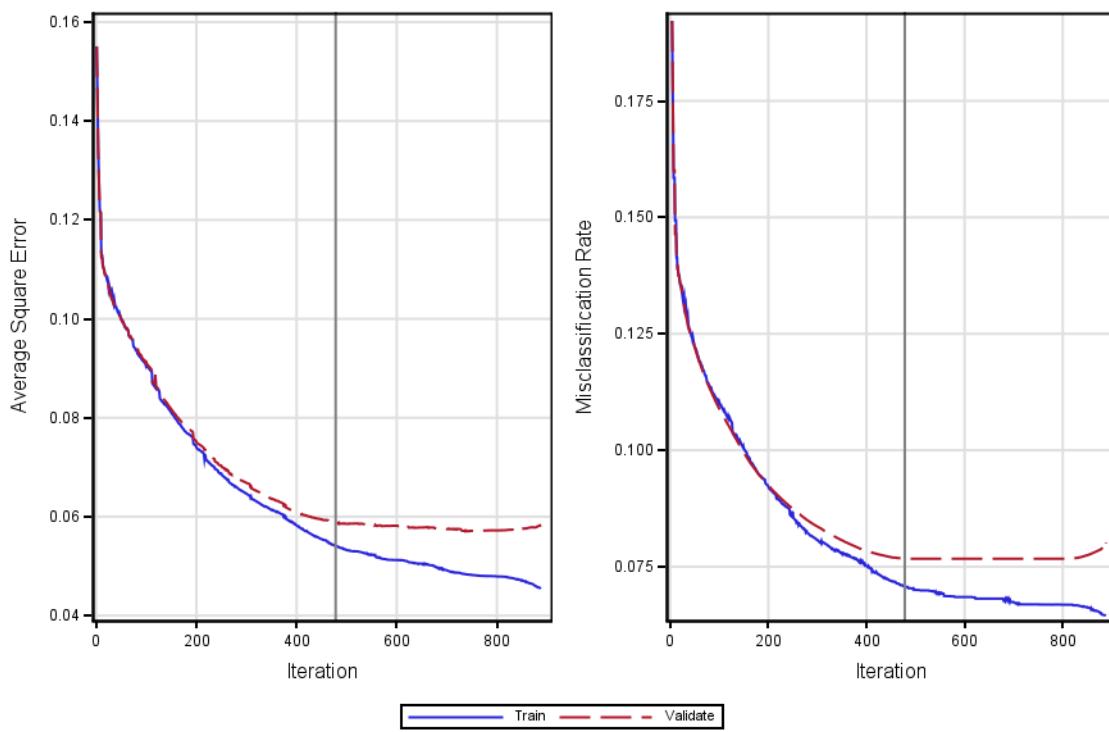
SAS Enterprise Miner Report
Node=Decision Tree B4D16
Tree Diagram

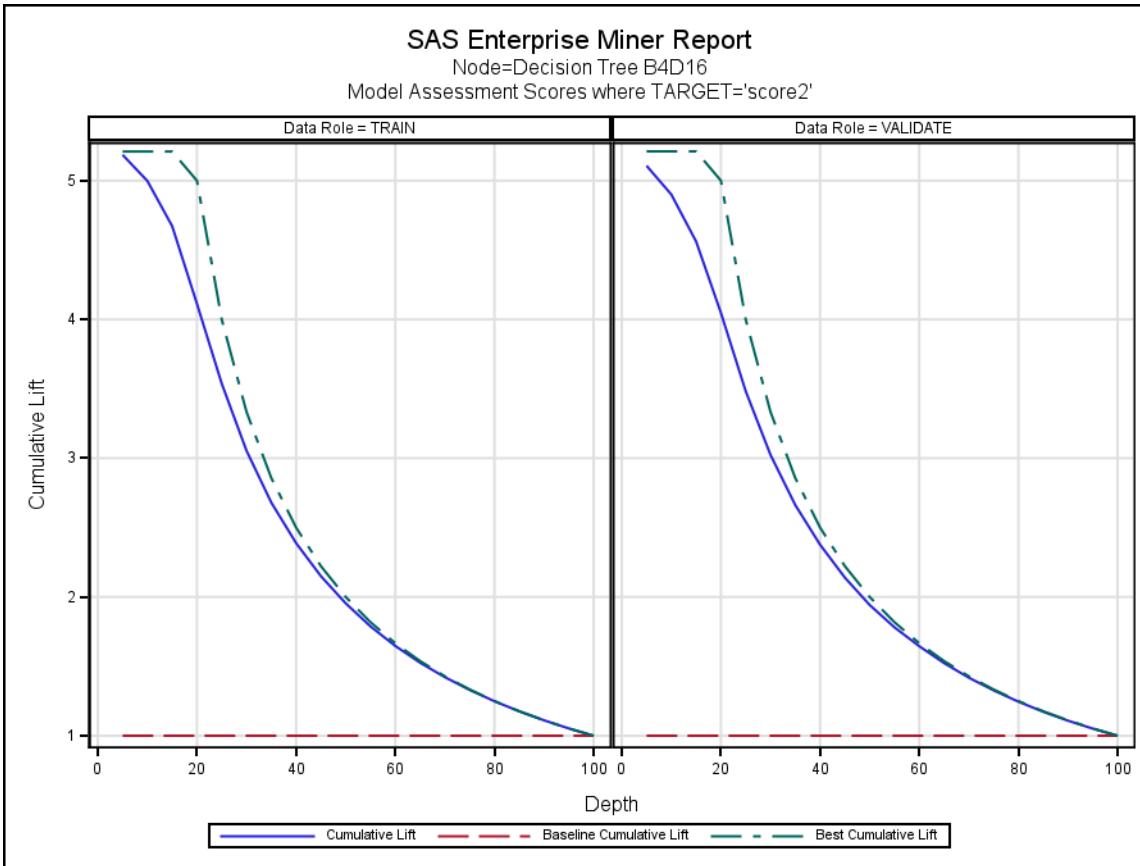
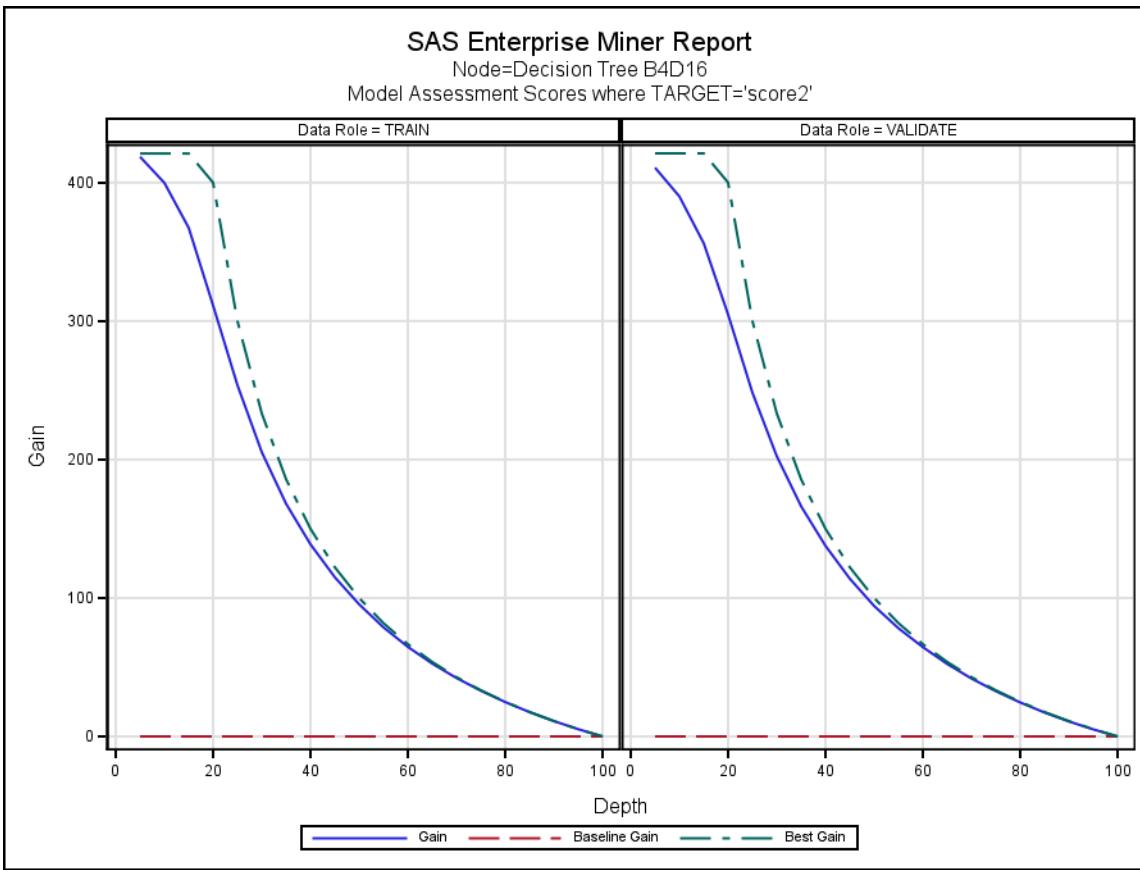


SAS Enterprise Miner Report
Node=Decision Tree B4D16
Treemap

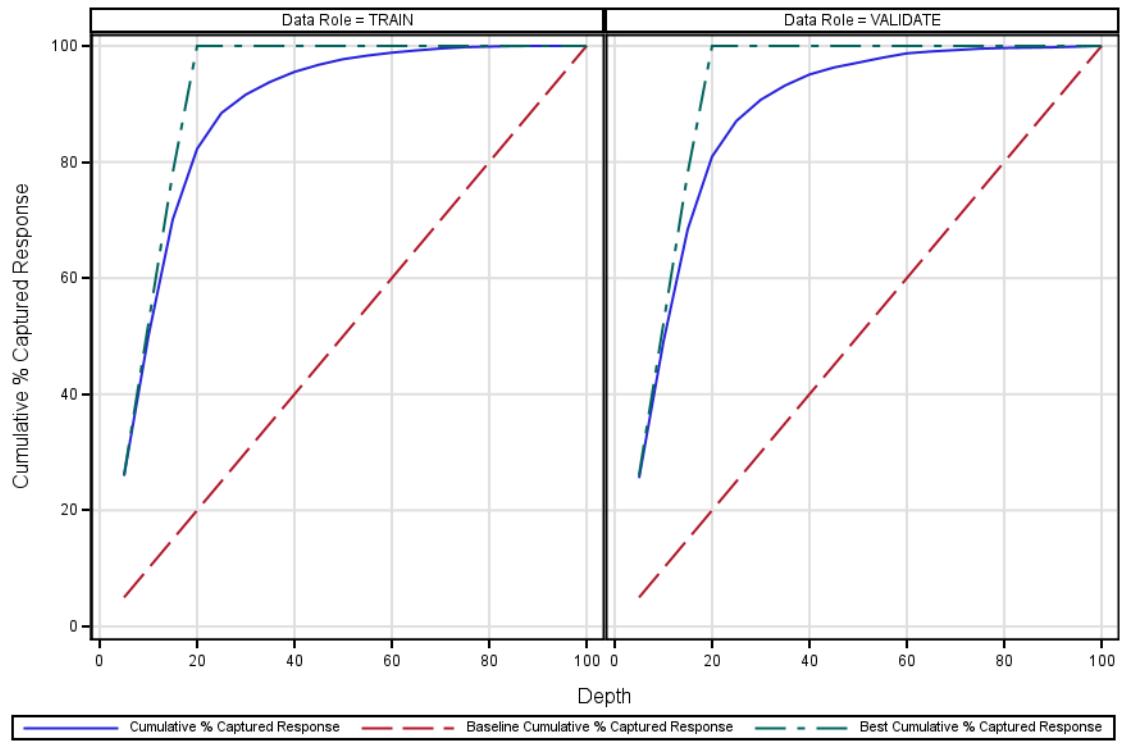


SAS Enterprise Miner Report
Node=Decision Tree B4D16
Model Iteration Plots

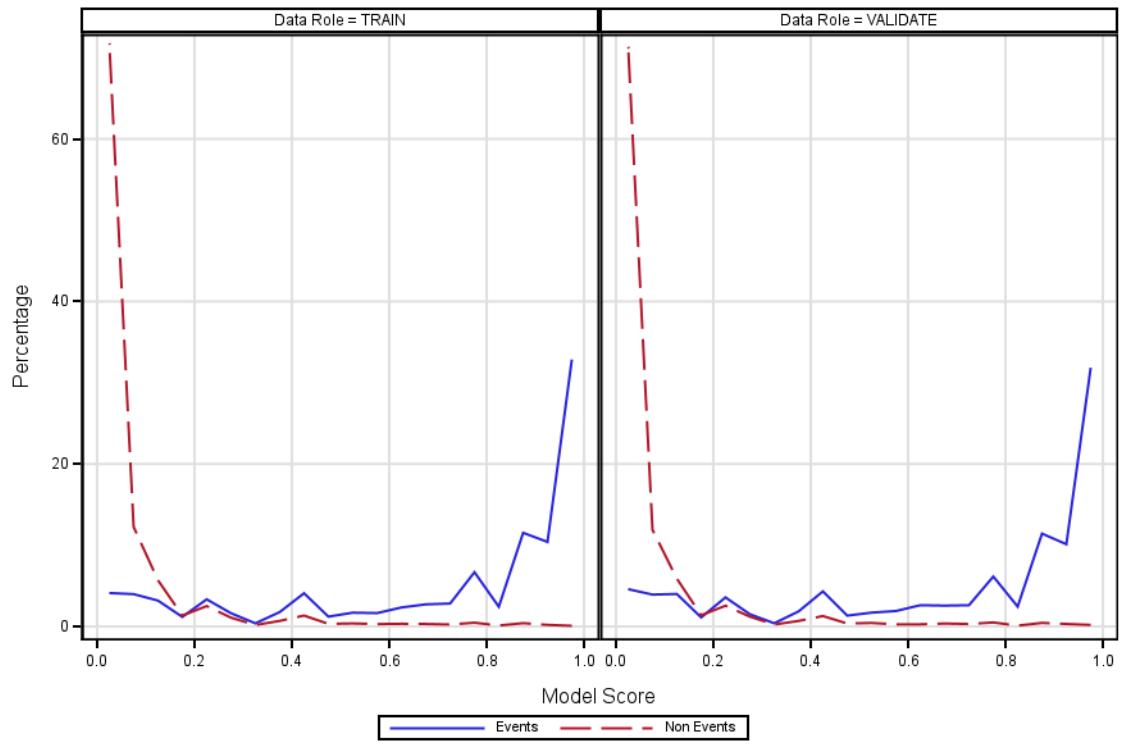




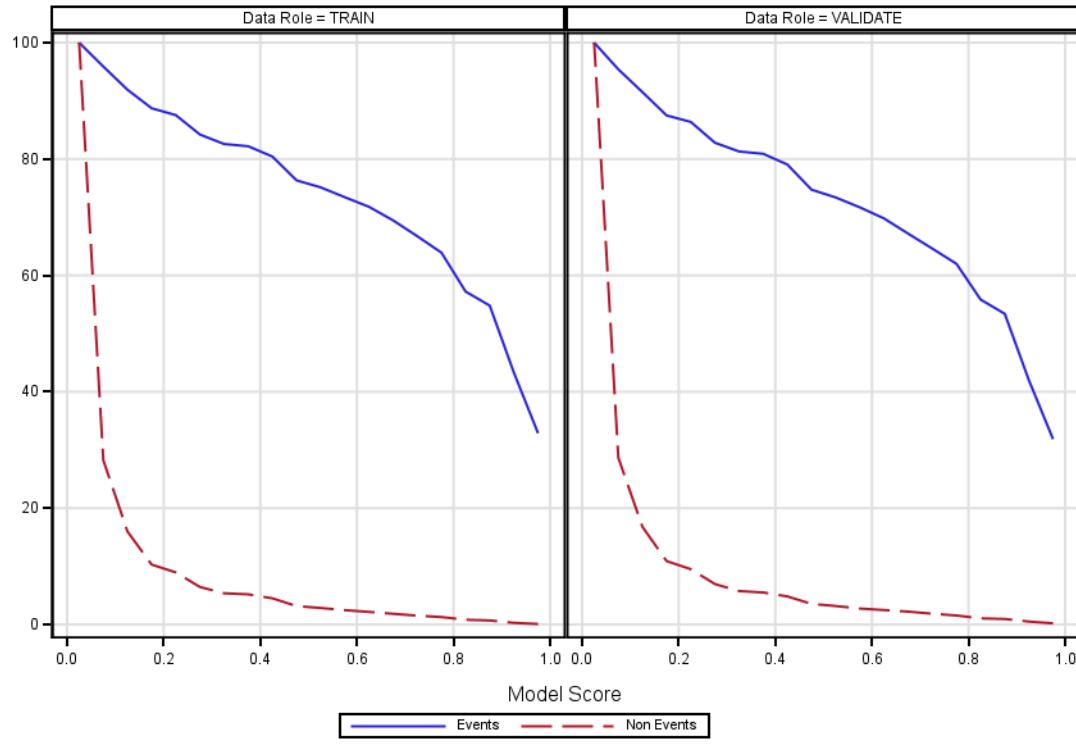
SAS Enterprise Miner Report
 Node=Decision Tree B4D16
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D16
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D16
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D16

Score Distributions

Target Variable=score2 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	3994	32.8589	0.0840	32.859	0.084
0.90-0.95	1265	10.4072	0.1974	43.266	0.281
0.85-0.90	1401	11.5261	0.4084	54.792	0.690
0.80-0.85	295	2.4270	0.1212	57.219	0.811
0.75-0.80	812	6.6804	0.4631	63.900	1.274
0.70-0.75	343	2.8219	0.2462	66.722	1.520
0.65-0.70	331	2.7232	0.3107	69.445	1.831
0.60-0.65	284	2.3365	0.3302	71.781	2.161
0.55-0.60	200	1.6454	0.2990	73.427	2.460
0.50-0.55	206	1.6948	0.3752	75.121	2.835
0.45-0.50	147	1.2094	0.3205	76.331	3.156
0.40-0.45	497	4.0889	1.3405	80.420	4.496
0.35-0.40	215	1.7688	0.6839	82.188	5.180
0.30-0.35	47	0.3867	0.1798	82.575	5.360
0.25-0.30	198	1.6290	1.0806	84.204	6.441
0.20-0.25	406	3.3402	2.5090	87.544	8.950
0.15-0.20	143	1.1765	1.3444	88.721	10.294
0.10-0.15	387	3.1839	5.6882	91.905	15.982
0.05-0.10	484	3.9819	12.2479	95.886	28.230
0.00-0.05	500	4.1135	71.7700	100.000	100.000

Target Variable=score2 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	1290	31.8440	0.1934	31.844	0.193
0.90-0.95	410	10.1210	0.3107	41.965	0.504
0.85-0.90	463	11.4293	0.4397	53.394	0.944
0.80-0.85	99	2.4438	0.1055	55.838	1.049
0.75-0.80	249	6.1466	0.4924	61.985	1.542
0.70-0.75	106	2.6166	0.3048	64.601	1.847
0.65-0.70	104	2.5673	0.3634	67.169	2.210
0.60-0.65	106	2.6166	0.2697	69.785	2.480
0.55-0.60	77	1.9008	0.2579	71.686	2.738
0.50-0.55	69	1.7033	0.4338	73.389	3.171
0.45-0.50	54	1.3330	0.3634	74.722	3.535
0.40-0.45	175	4.3199	1.2838	79.042	4.819
0.35-0.40	75	1.8514	0.6800	80.894	5.499
0.30-0.35	16	0.3950	0.2403	81.289	5.739
0.25-0.30	61	1.5058	1.2076	82.794	6.946
0.20-0.25	145	3.5794	2.5558	86.374	9.502
0.15-0.20	45	1.1108	1.3834	87.485	10.886
0.10-0.15	162	3.9990	5.8855	91.484	16.771
0.05-0.10	159	3.9250	11.8940	95.409	28.665
0.00-0.05	186	4.5915	71.3348	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D6 Summary

Node id = Tree
 Node label = Decision Tree B2D6
 Meta path = Ids => Part => Tree
 Notes =

Node=Decision Tree B2D6 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 B2D6 Variable Summary

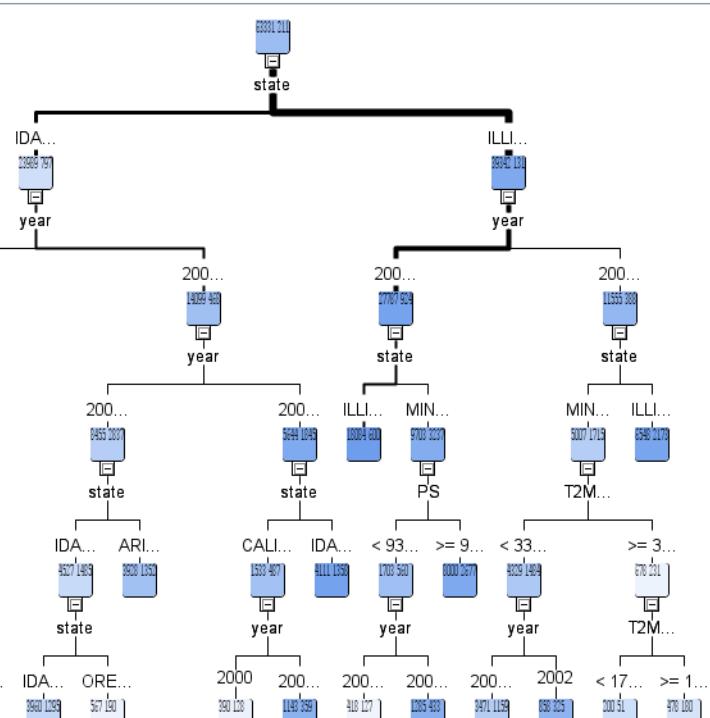
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D6 Model Fit Statistics

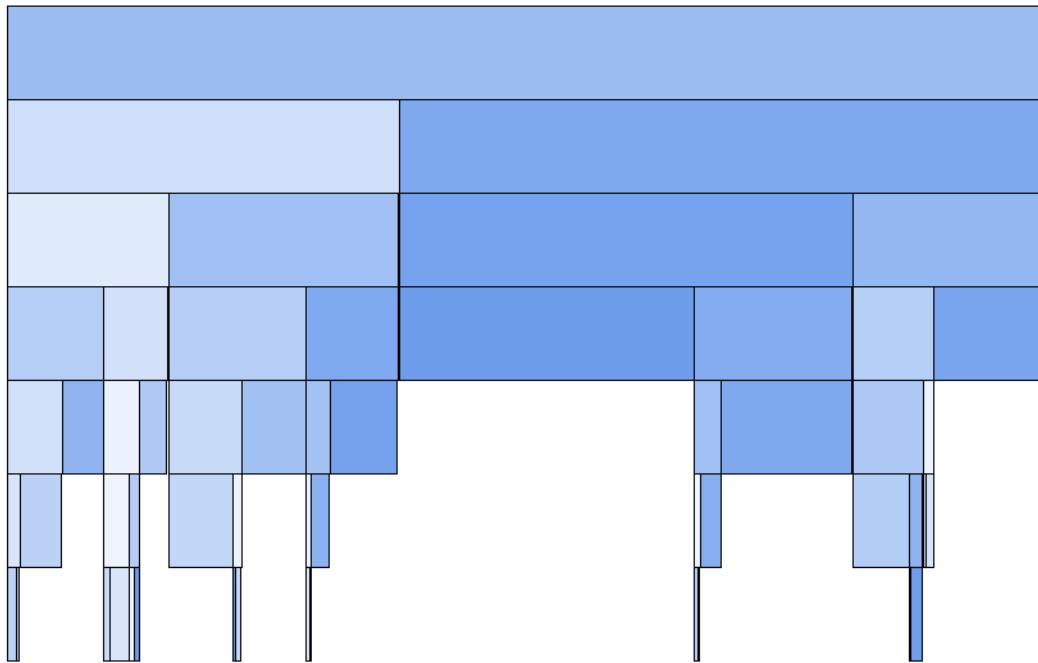
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.13	0.14	0.14
Maximum Absolute Error	0.99	0.99	0.99
Sum of Squared Errors	13108.14	4373.89	4457.88
Average Squared Error	0.10	0.10	0.11
Root Average Squared Error	0.32	0.32	0.32
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

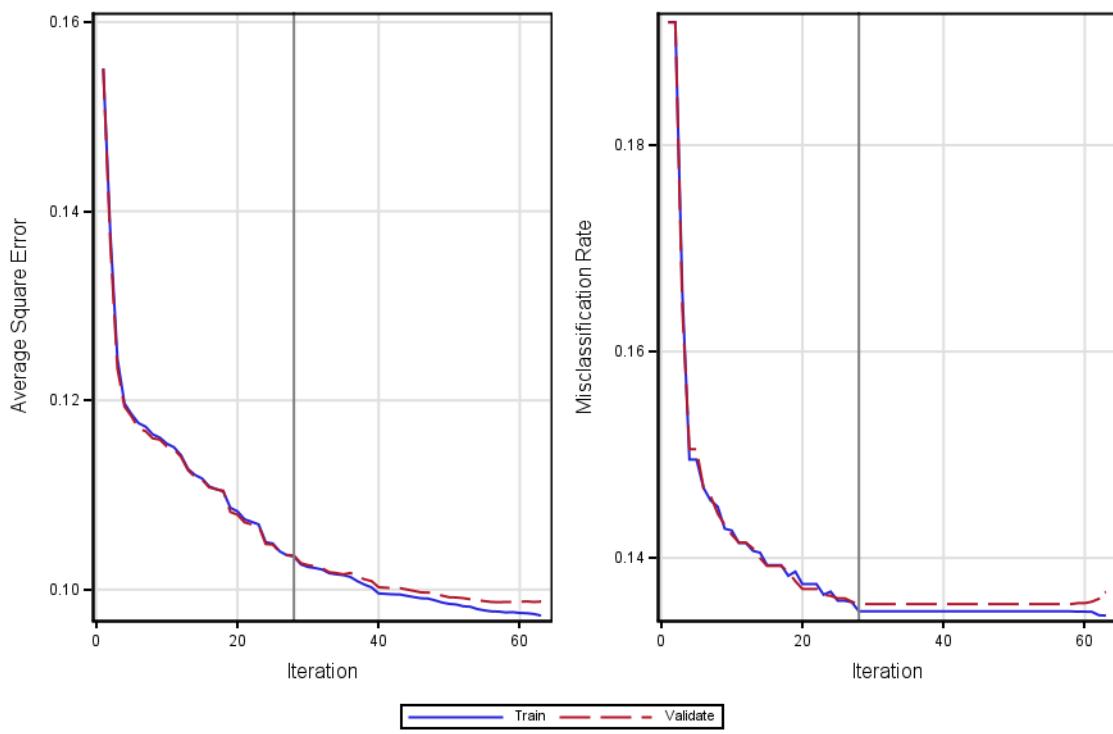
SAS Enterprise Miner Report
Node=Decision Tree B2D6
Tree Diagram

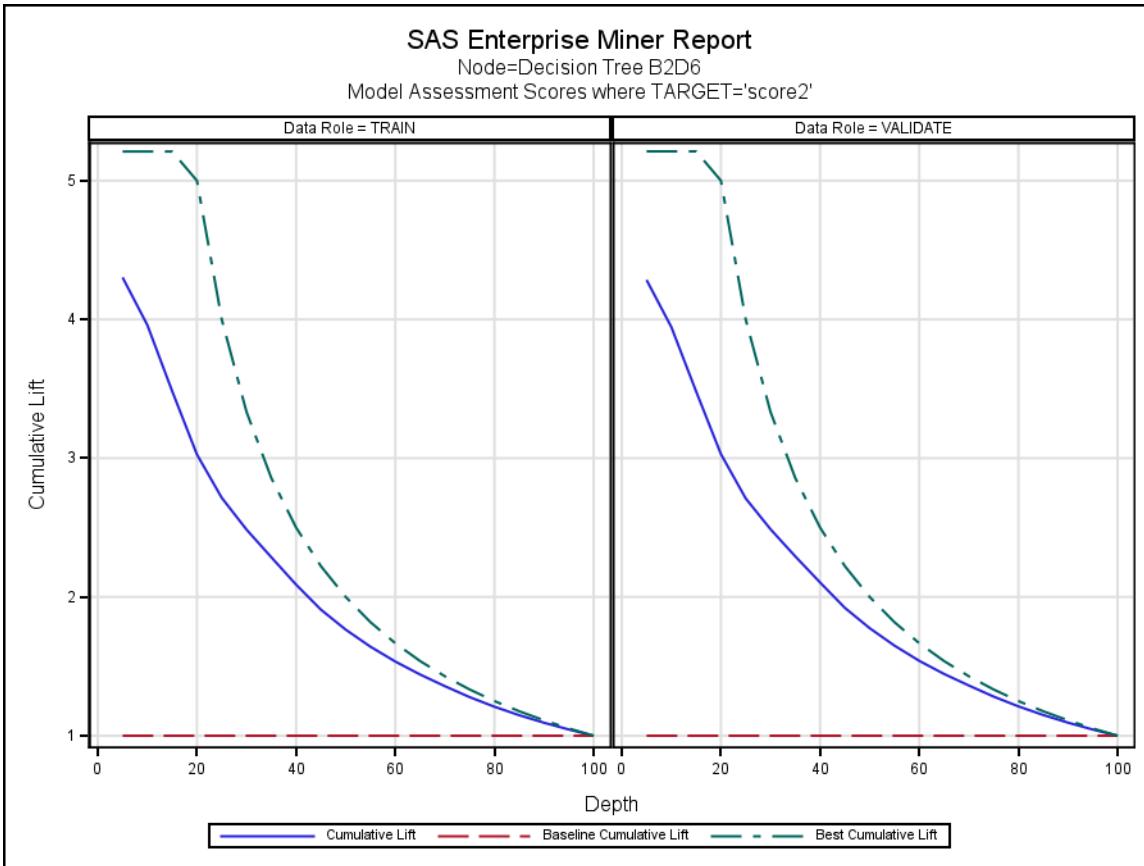
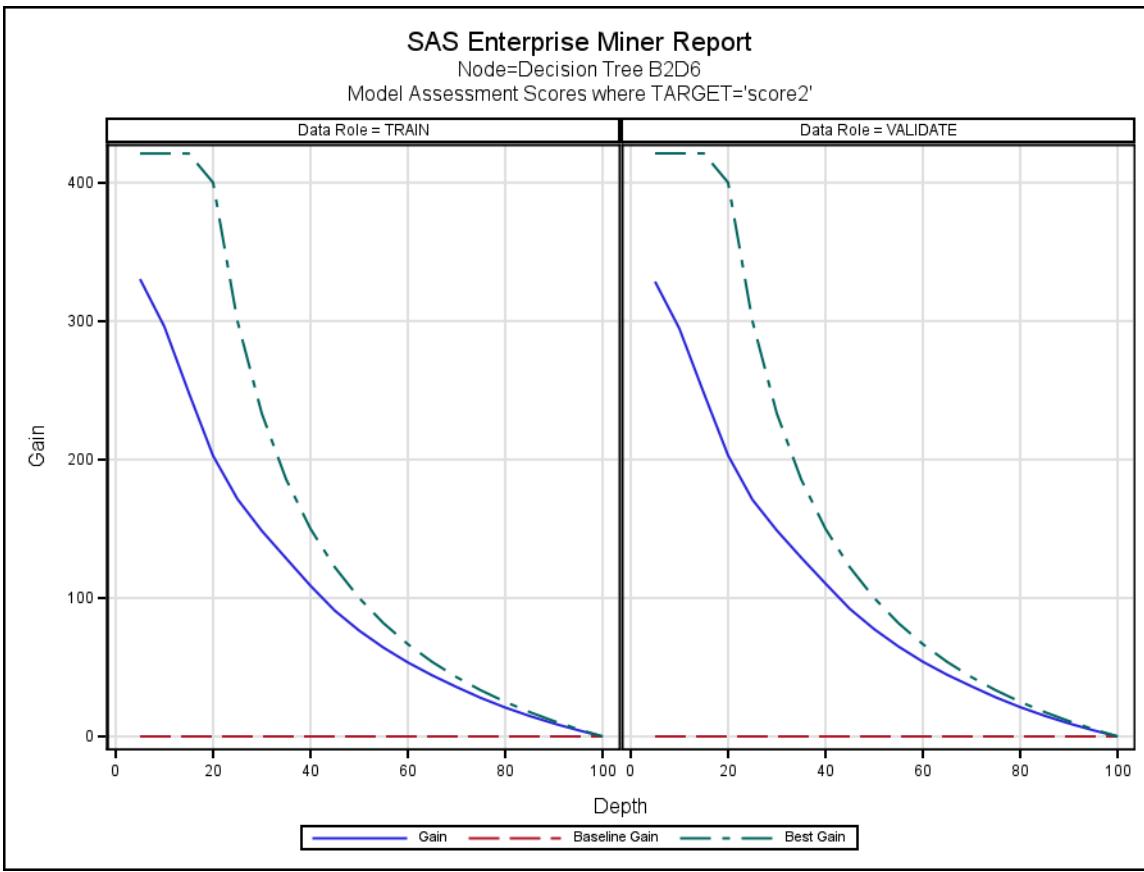


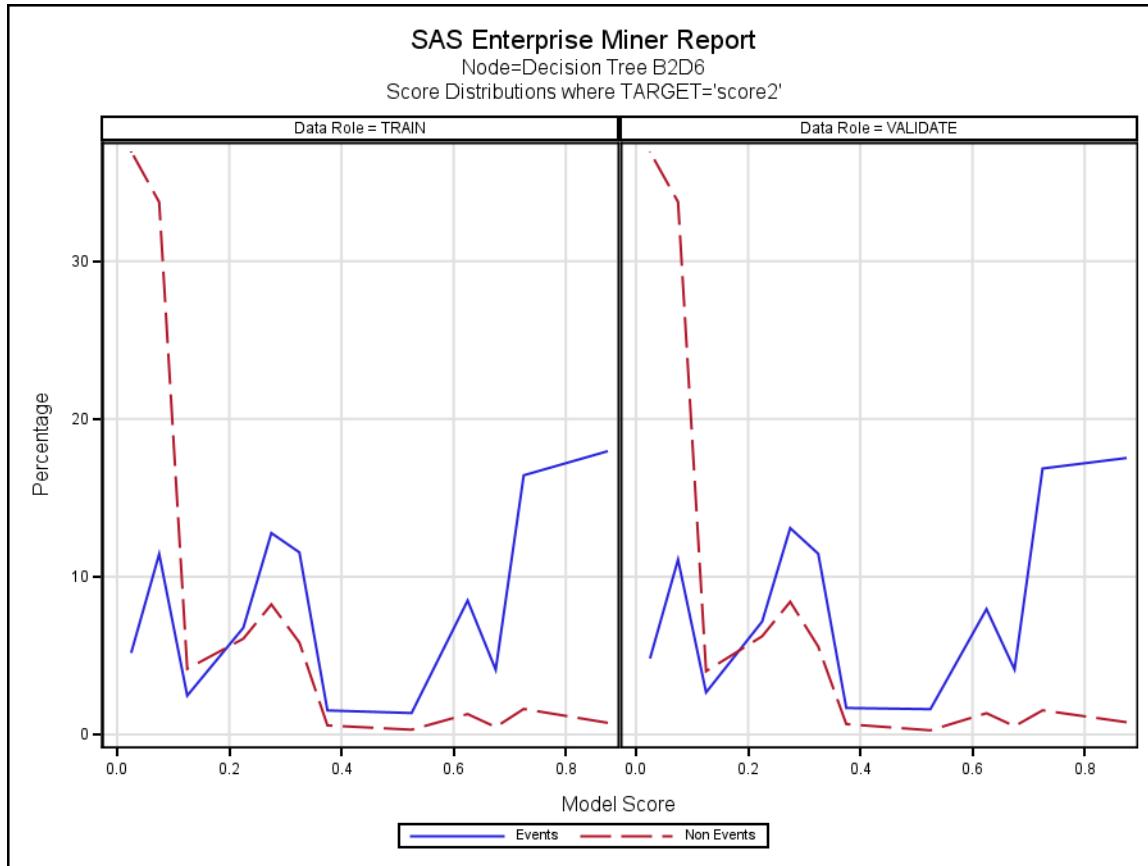
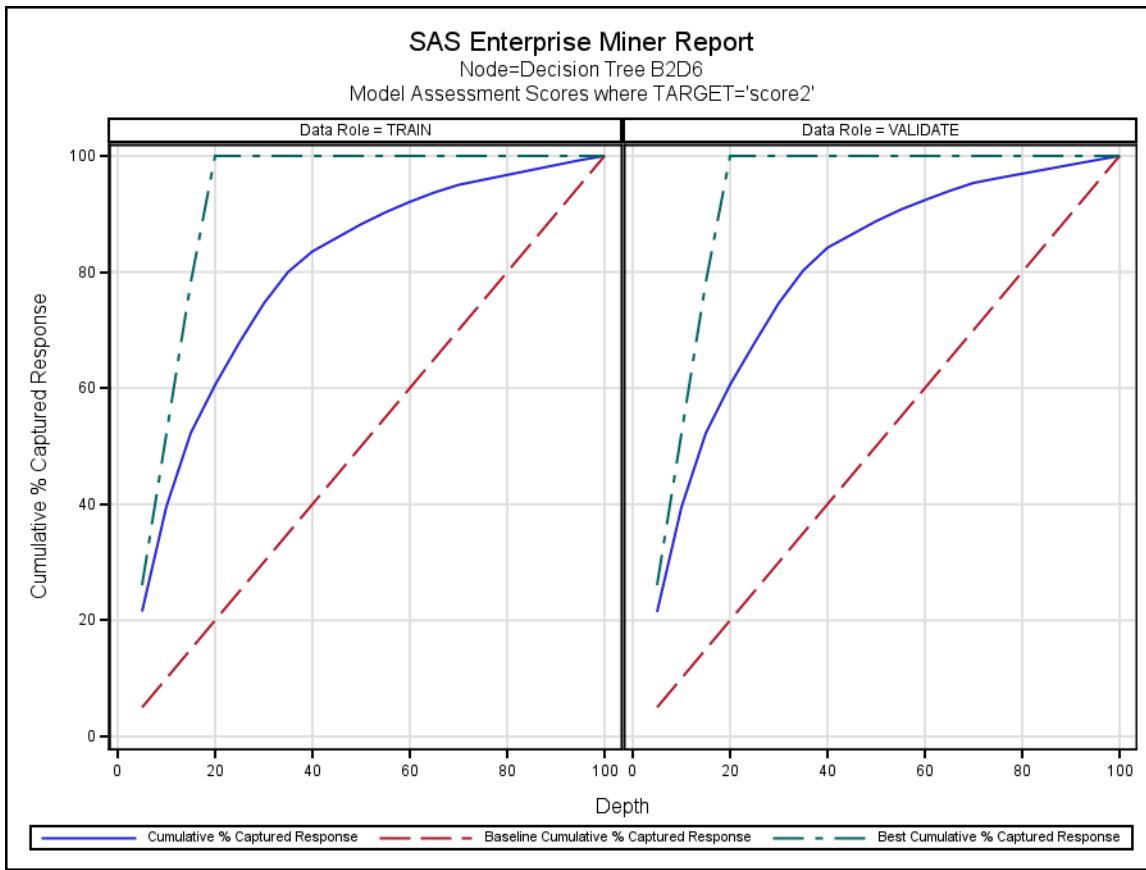
SAS Enterprise Miner Report
Node=Decision Tree B2D6
Treemap



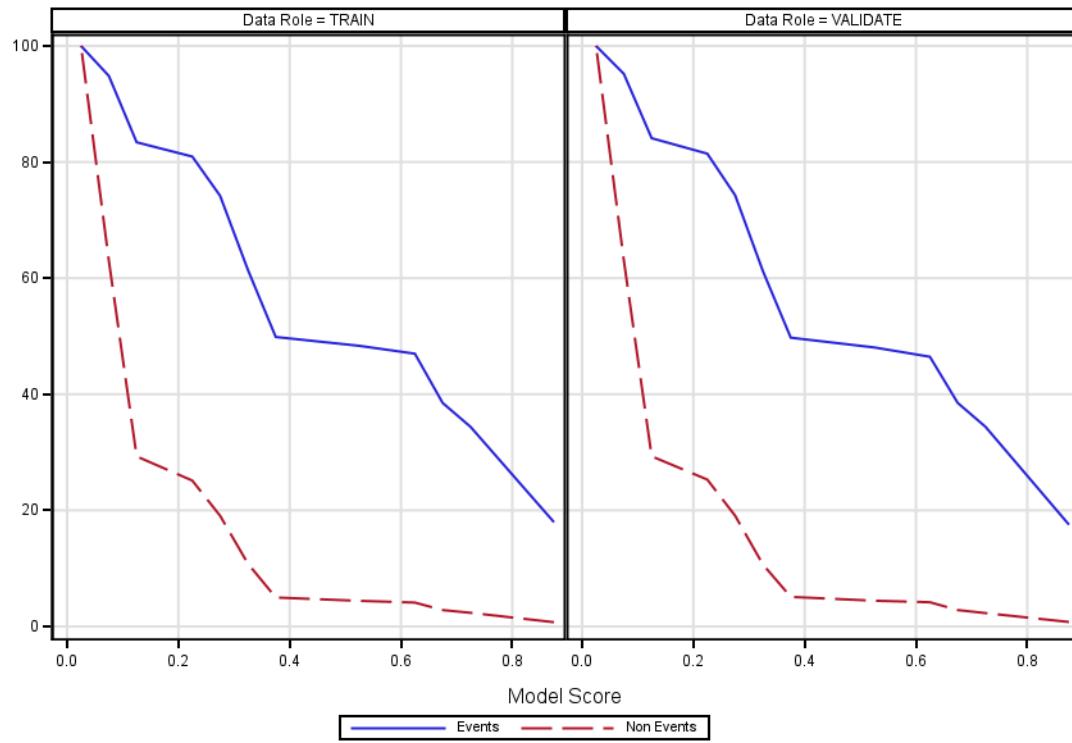
SAS Enterprise Miner Report
Node=Decision Tree B2D6
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B2D6
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D6
Score Distributions

Target Variable=score2 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	2183	17.9597	0.7367	17.960	0.737
0.70-0.75	1997	16.4295	1.6179	34.389	2.355
0.65-0.70	499	4.1053	0.4690	38.494	2.824
0.60-0.65	1032	8.4903	1.2916	46.985	4.115
0.50-0.55	165	1.3575	0.3009	48.342	4.416
0.35-0.40	185	1.5220	0.5725	49.864	4.989
0.30-0.35	1403	11.5426	5.8289	61.407	10.818
0.25-0.30	1552	12.7684	8.2441	74.175	19.062
0.20-0.25	822	6.7626	6.0693	80.938	25.131
0.10-0.15	299	2.4599	4.1602	83.398	29.291
0.05-0.10	1390	11.4356	33.7443	94.833	63.035
0.00-0.05	628	5.1666	36.9646	100.000	100.000

Target Variable=score2 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	710	17.5265	0.7738	17.527	0.774
0.70-0.75	683	16.8600	1.5300	34.387	2.304
0.65-0.70	167	4.1224	0.5217	38.509	2.825
0.60-0.65	322	7.9487	1.3483	46.458	4.174
0.50-0.55	65	1.6045	0.2638	48.062	4.438

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.35-0.40	68	1.6786	0.6565	49.741	5.094
0.30-0.35	464	11.4540	5.5689	61.195	10.663
0.25-0.30	530	13.0832	8.4120	74.278	19.075
0.20-0.25	290	7.1587	6.2255	81.437	25.300
0.10-0.15	108	2.6660	4.0096	84.103	29.310
0.05-0.10	449	11.0837	33.7593	95.186	63.069
0.00-0.05	195	4.8136	36.9307	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D10 Summary

Node id = Tree12
 Node label = Decision Tree B2D10
 Meta path = Ids => Part => Tree12
 Notes =

Node=Decision Tree B2D10 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	10	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 B2D10 Variable Summary

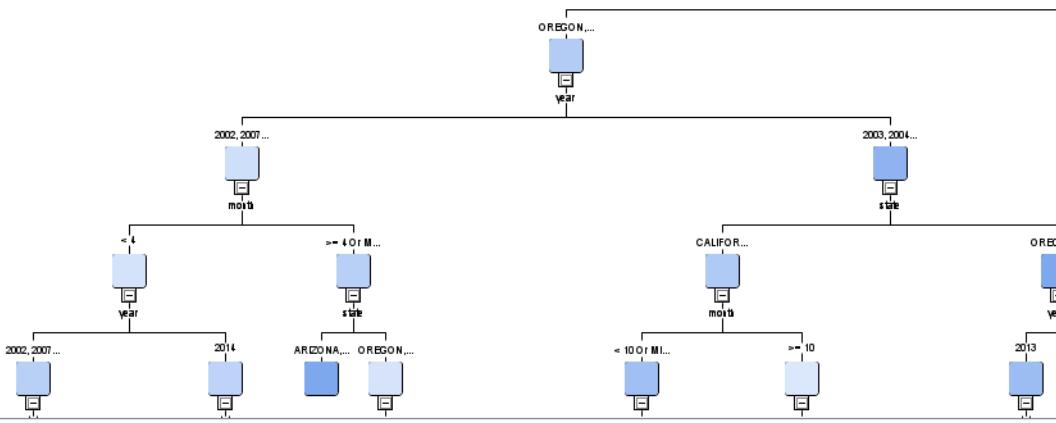
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D10 Model Fit Statistics

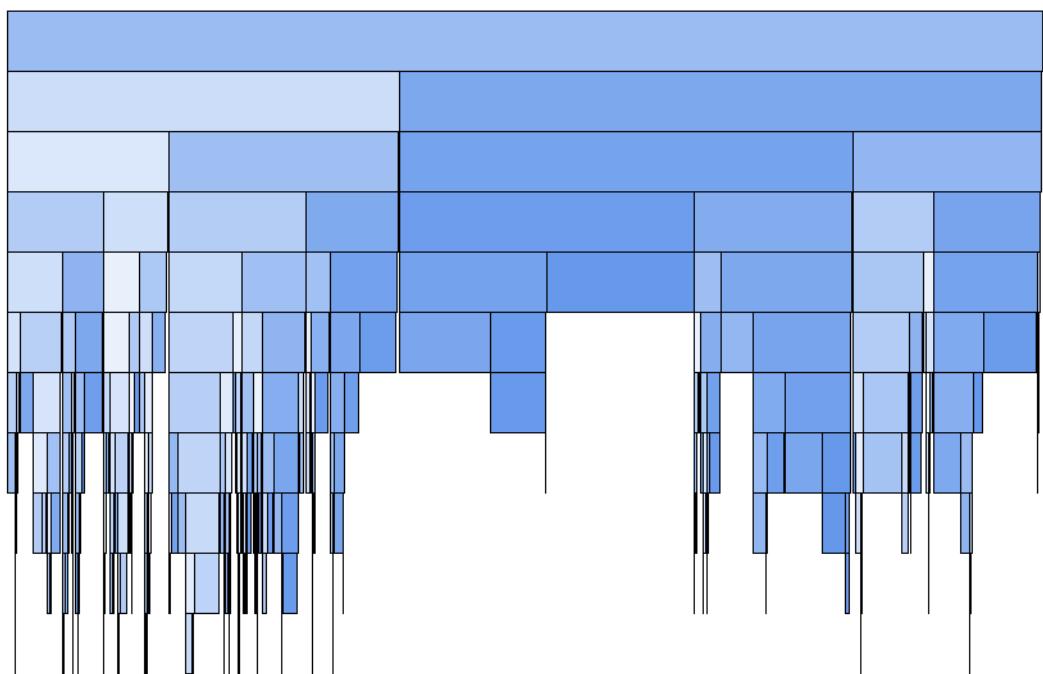
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.09	0.10	0.10
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	9525.06	3274.09	3388.72
Average Squared Error	0.08	0.08	0.08
Root Average Squared Error	0.27	0.28	0.28
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

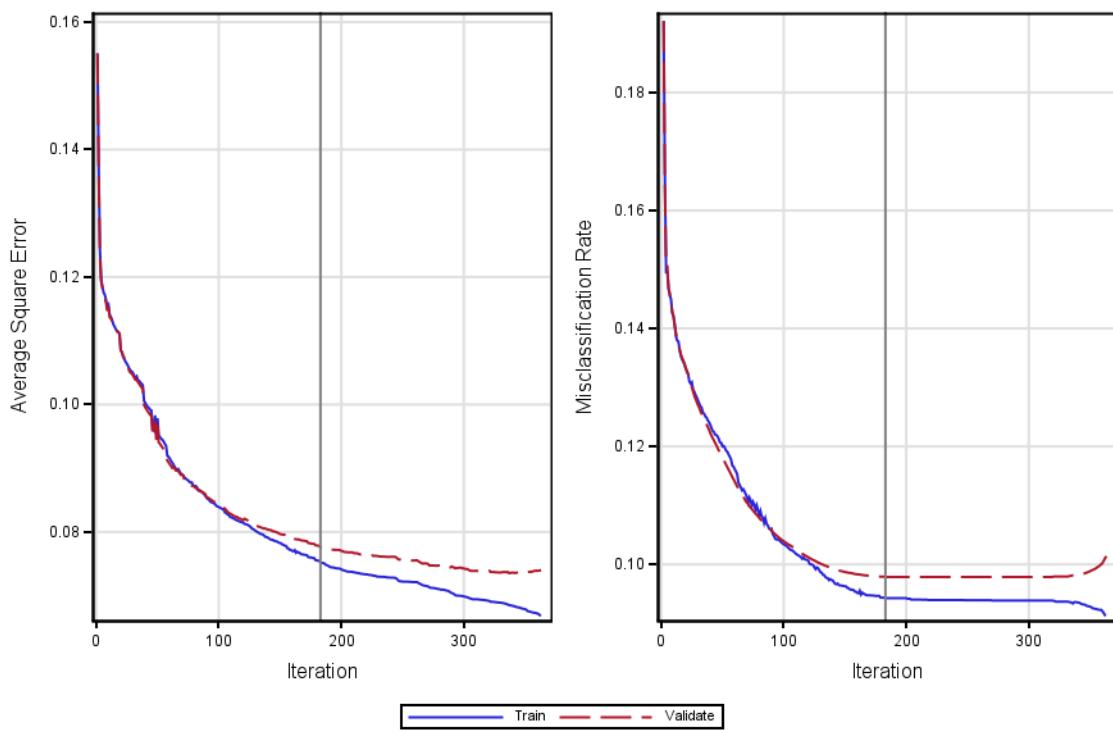
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Tree Diagram

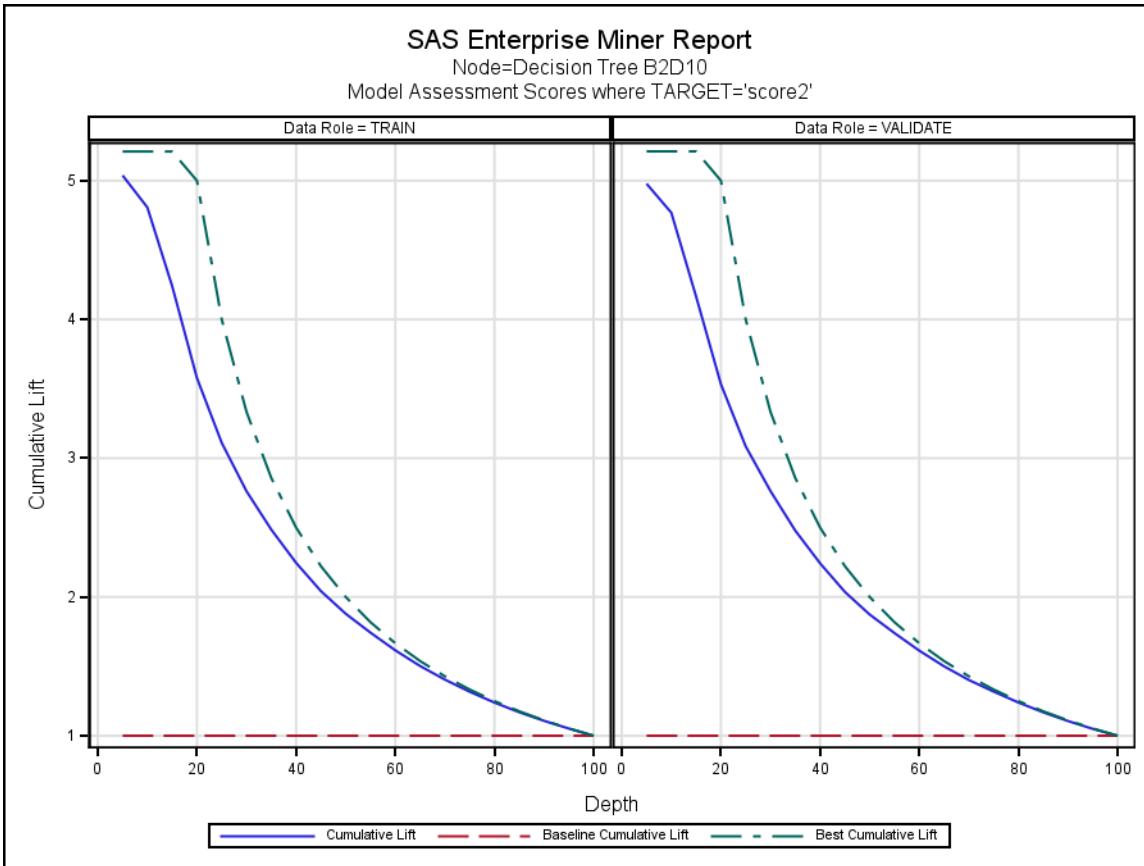
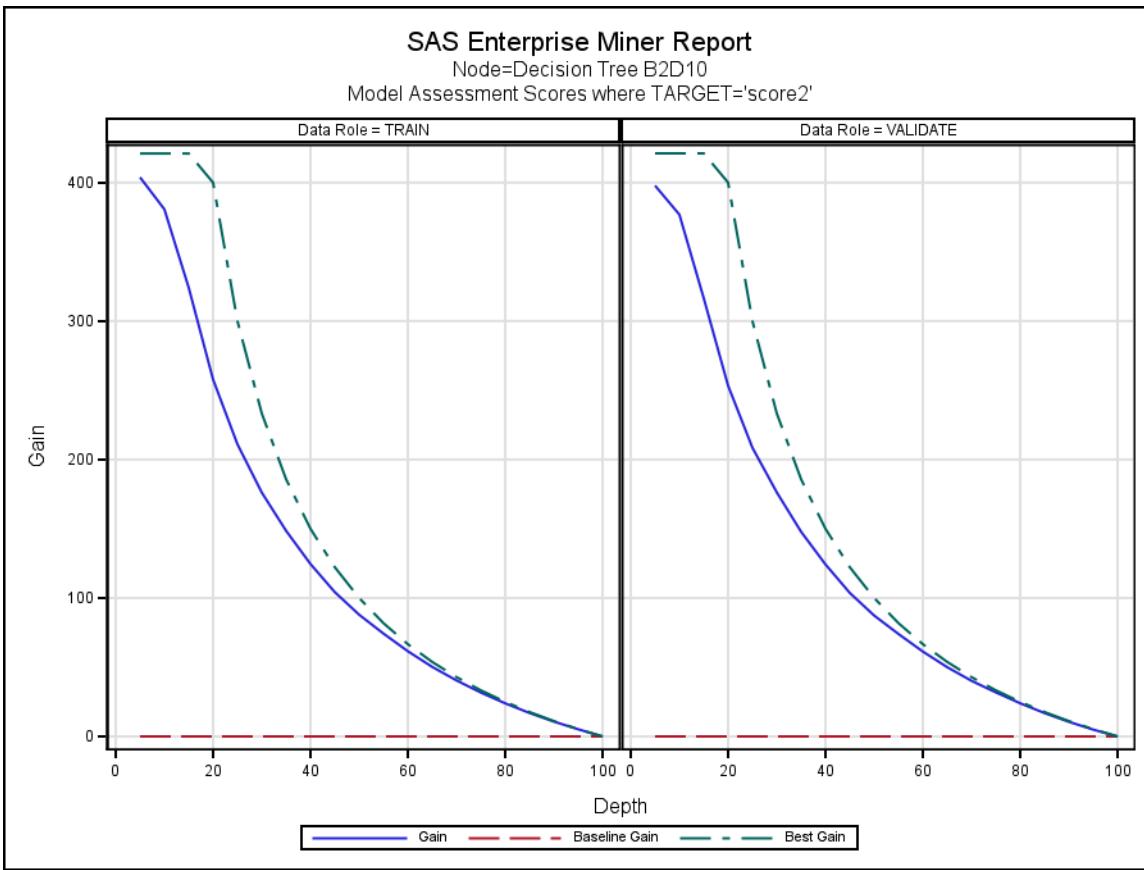


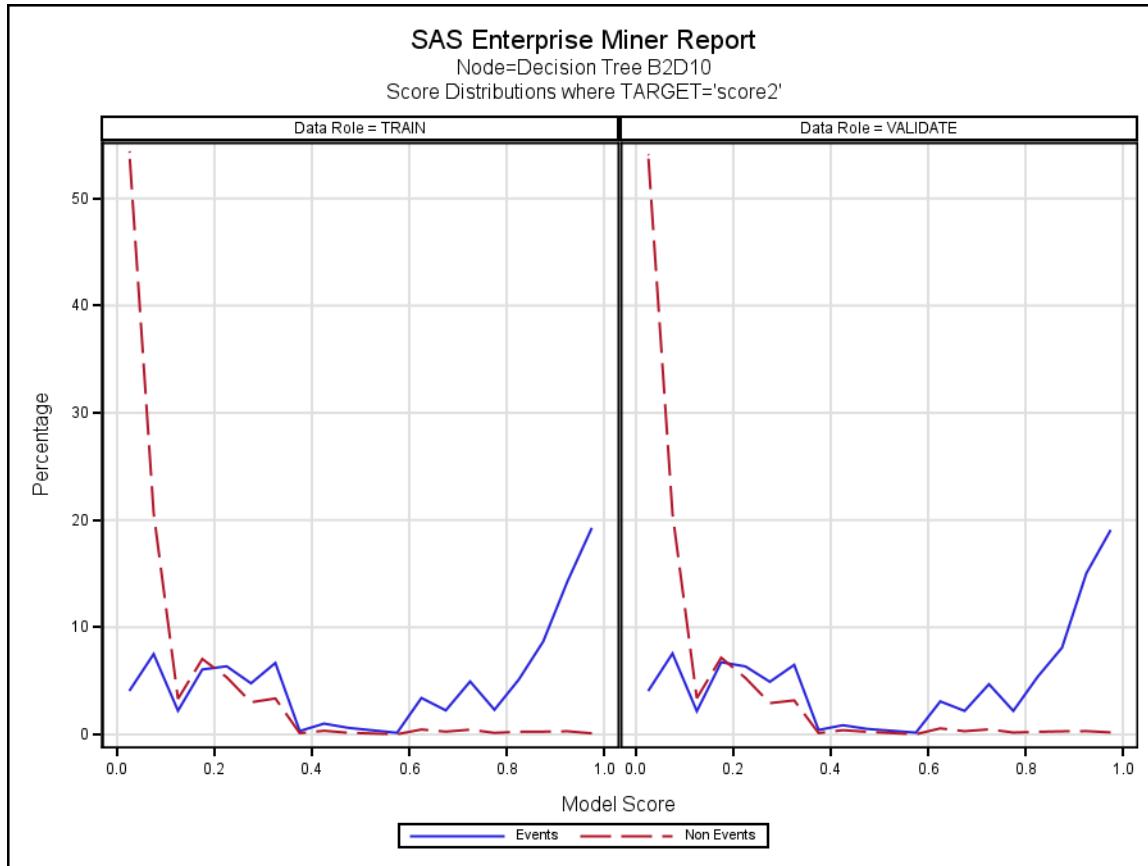
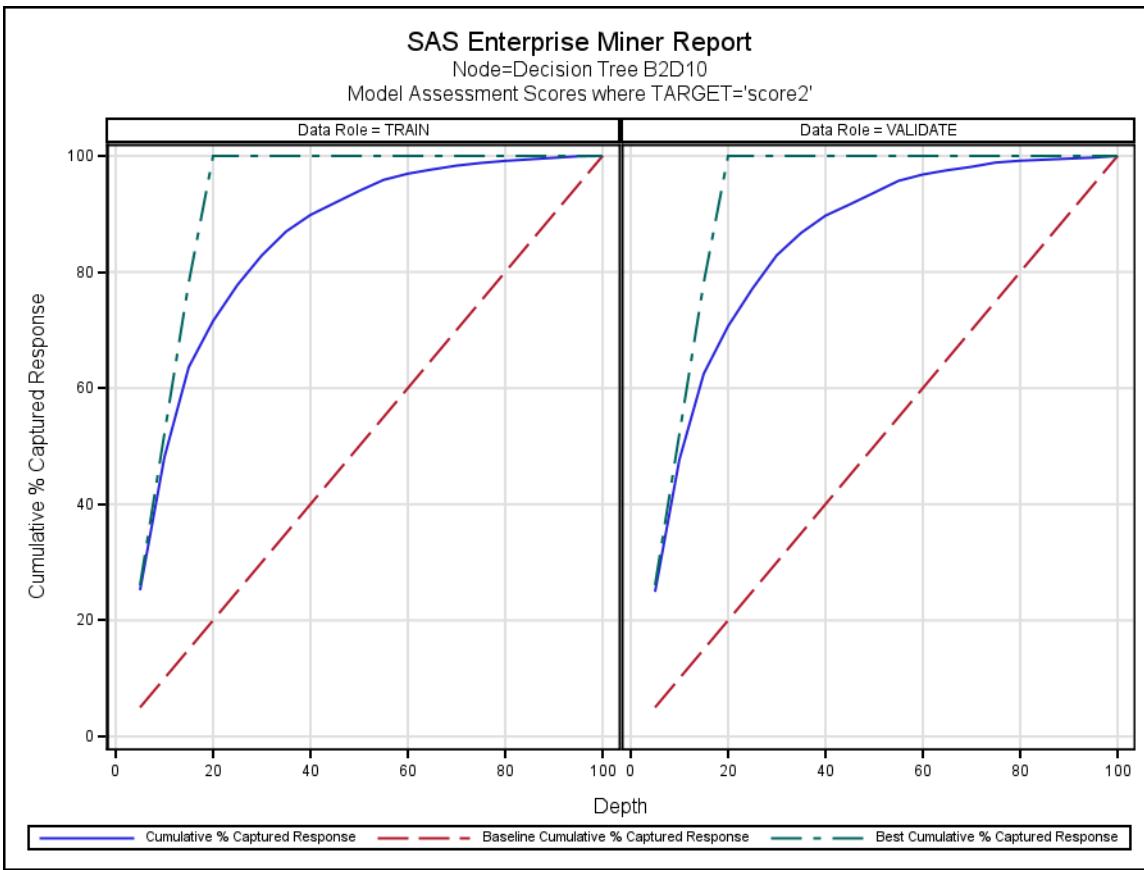
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Treemap



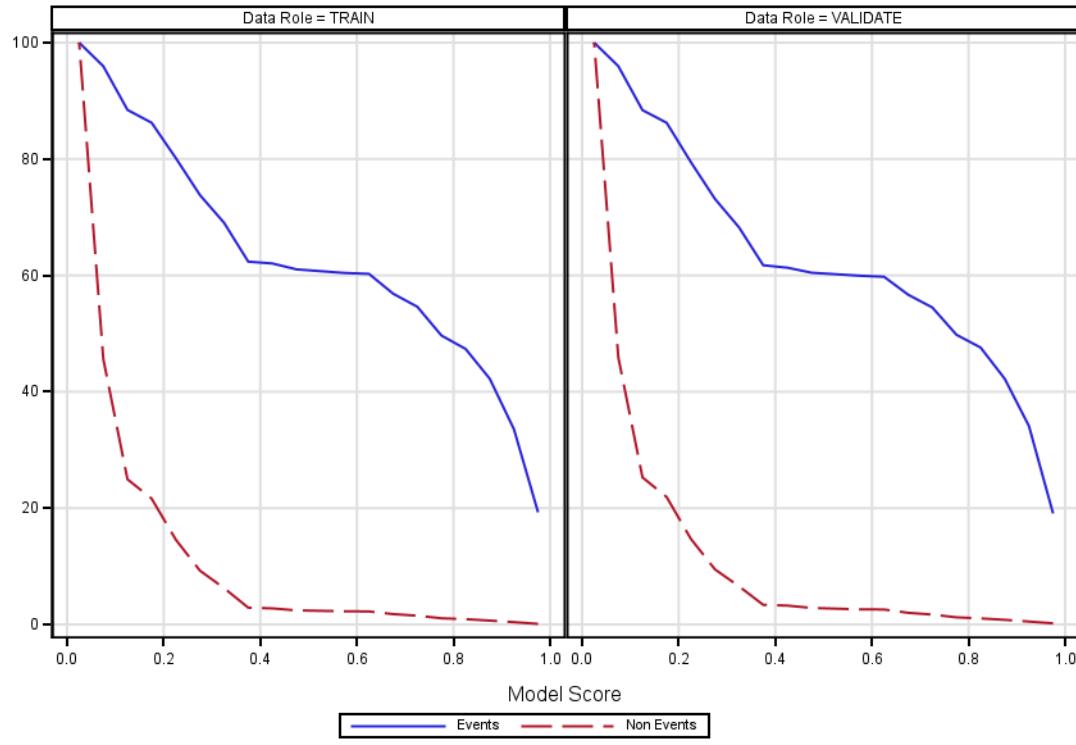
SAS Enterprise Miner Report
Node=Decision Tree B2D10
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B2D10
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D10

Score Distributions

Target Variable=score2 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	2343	19.2760	0.1036	19.276	0.104
0.90-0.95	1737	14.2904	0.2990	33.566	0.403
0.85-0.90	1053	8.6631	0.2618	42.230	0.664
0.80-0.85	623	5.1255	0.2501	47.355	0.914
0.75-0.80	280	2.3036	0.1505	49.659	1.065
0.70-0.75	601	4.9445	0.4475	54.603	1.512
0.65-0.70	273	2.2460	0.2657	56.849	1.778
0.60-0.65	414	3.4060	0.4612	60.255	2.239
0.55-0.60	19	0.1563	0.0254	60.411	2.265
0.45-0.50	75	0.6170	0.1583	61.028	2.423
0.40-0.45	123	1.0119	0.3439	62.040	2.767
0.35-0.40	39	0.3209	0.1212	62.361	2.888
0.30-0.35	811	6.6722	0.3390	69.033	6.247
0.25-0.30	580	4.7717	0.0034	73.805	9.250
0.20-0.25	773	6.3595	0.5365	80.165	14.587
0.15-0.20	737	6.0633	0.7042	86.228	21.629
0.10-0.15	269	2.2131	0.3238	88.441	24.953
0.05-0.10	912	7.5031	0.2065	95.944	45.607
0.00-0.05	493	4.0559	0.5439	100.000	100.000

Target Variable=score2 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	773	19.0817	0.1934	19.082	0.193
0.90-0.95	609	15.0333	0.3107	34.115	0.504
0.85-0.90	328	8.0968	0.2931	42.212	0.797
0.80-0.85	218	5.3814	0.2462	47.593	1.043
0.75-0.80	89	2.1970	0.1817	49.790	1.225
0.70-0.75	190	4.6902	0.4748	54.480	1.700
0.65-0.70	89	2.1970	0.3048	56.677	2.005
0.60-0.65	125	3.0857	0.5686	59.763	2.573
0.55-0.60	7	0.1728	0.0234	59.936	2.597
0.45-0.50	21	0.5184	0.2462	60.454	2.843
0.40-0.45	35	0.8640	0.3986	61.318	3.242
0.35-0.40	17	0.4196	0.1290	61.738	3.371
0.30-0.35	263	6.4922	3.1772	68.230	6.548
0.25-0.30	199	4.9124	2.9251	73.142	9.473
0.20-0.25	257	6.3441	5.2641	79.487	14.737
0.15-0.20	273	6.7391	7.1634	86.226	21.900
0.10-0.15	88	2.1723	3.3824	88.398	25.283
0.05-0.10	306	7.5537	20.6108	95.952	45.894
0.00-0.05	164	4.0484	54.1063	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B2D14 Summary

Node id = Tree23
 Node label = Decision Tree B2D14
 Meta path = Ids => Part => Tree23
 Notes =

Node=Decision Tree B2D14 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	14	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 B2D14 Variable Summary

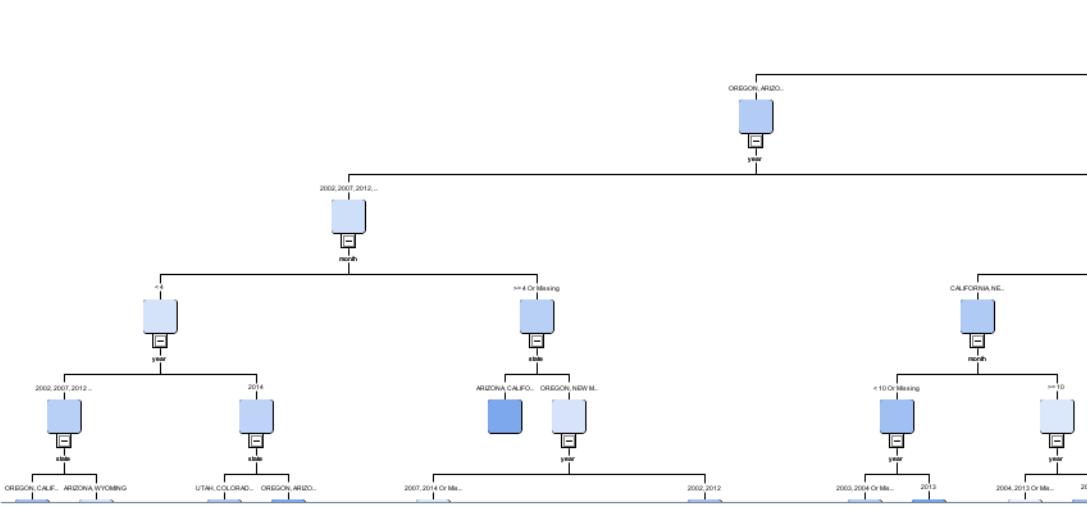
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B2D14 Model Fit Statistics

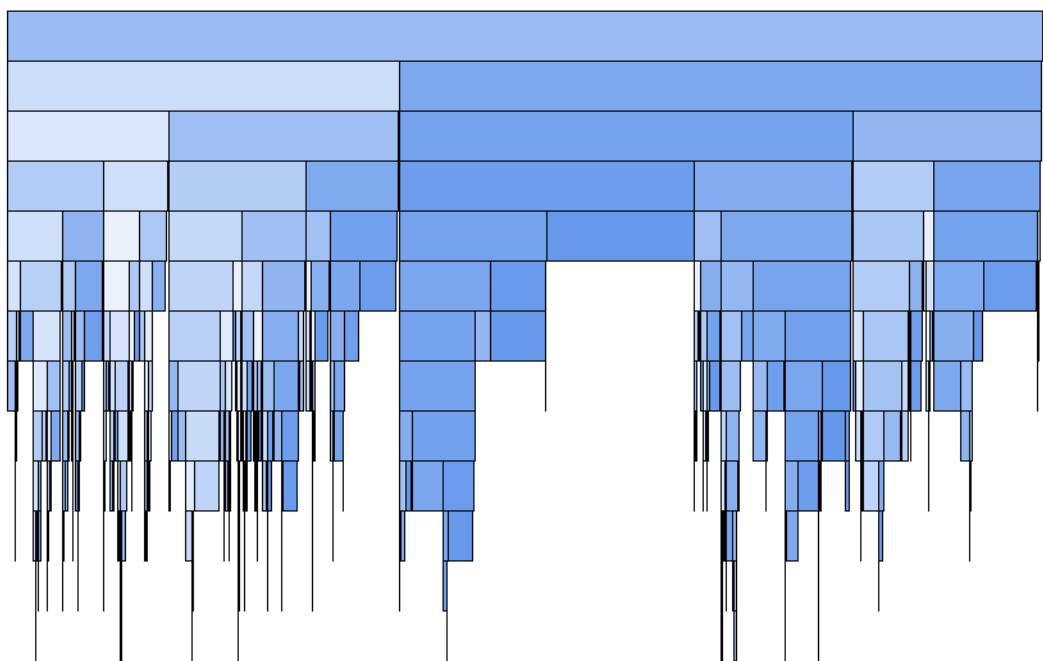
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.09	0.09	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	8678.54	3048.14	3184.74
Average Squared Error	0.07	0.07	0.08
Root Average Squared Error	0.26	0.27	0.27
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

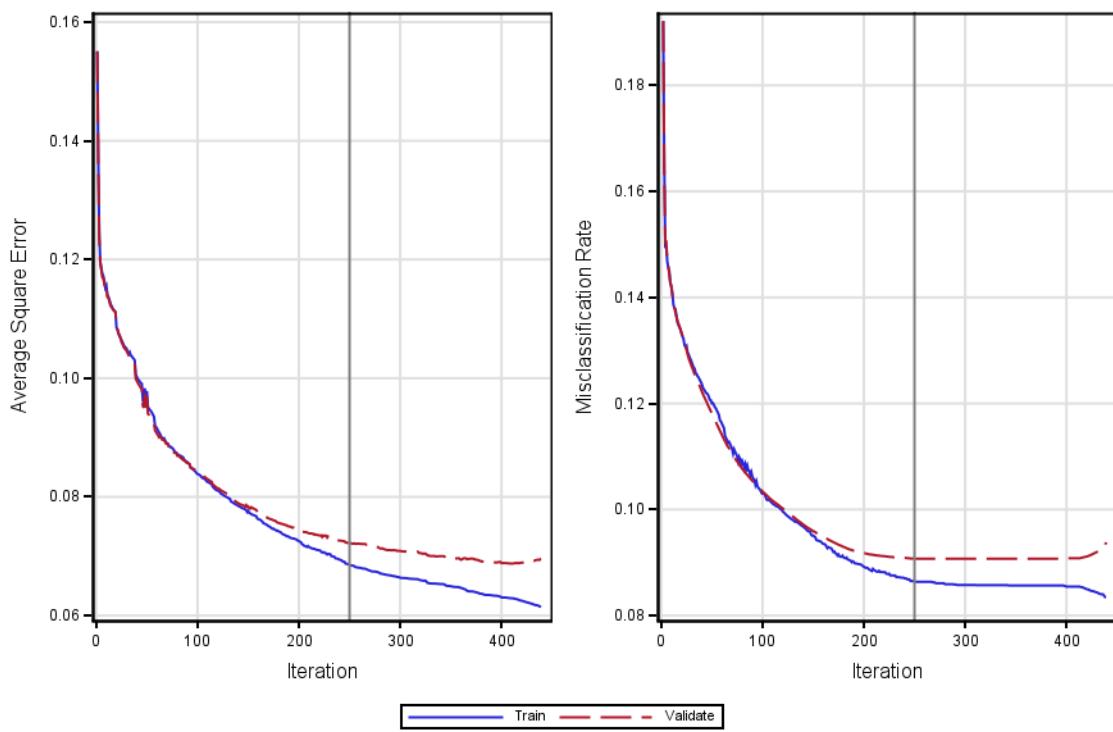
SAS Enterprise Miner Report
Node=Decision Tree B2D14
Tree Diagram

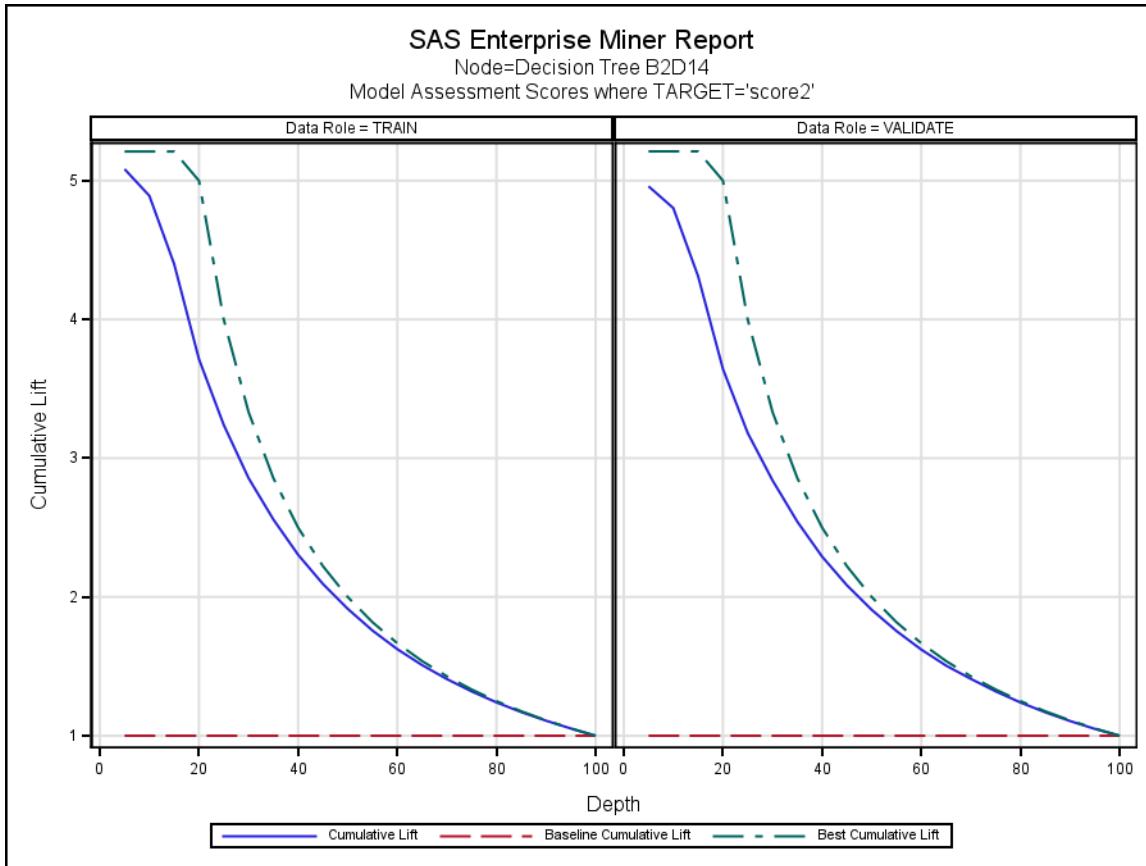
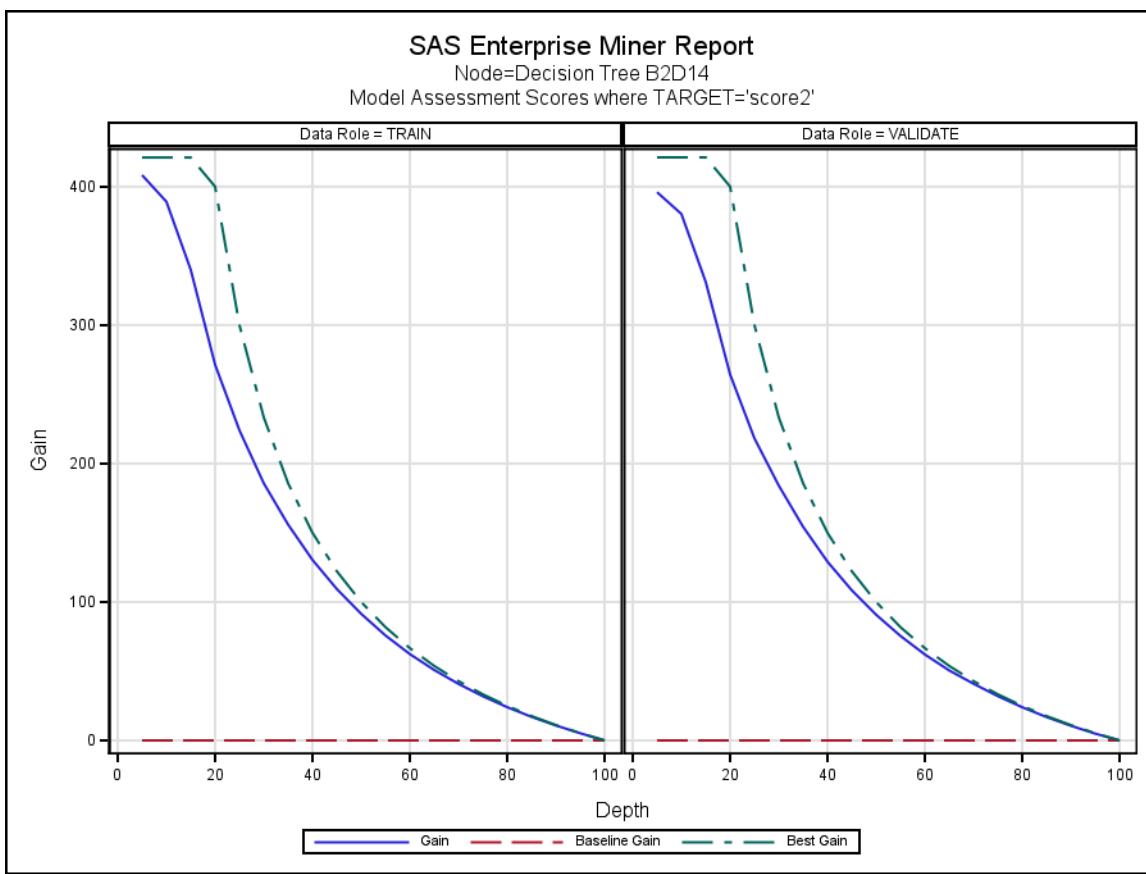


SAS Enterprise Miner Report
Node=Decision Tree B2D14
Treemap

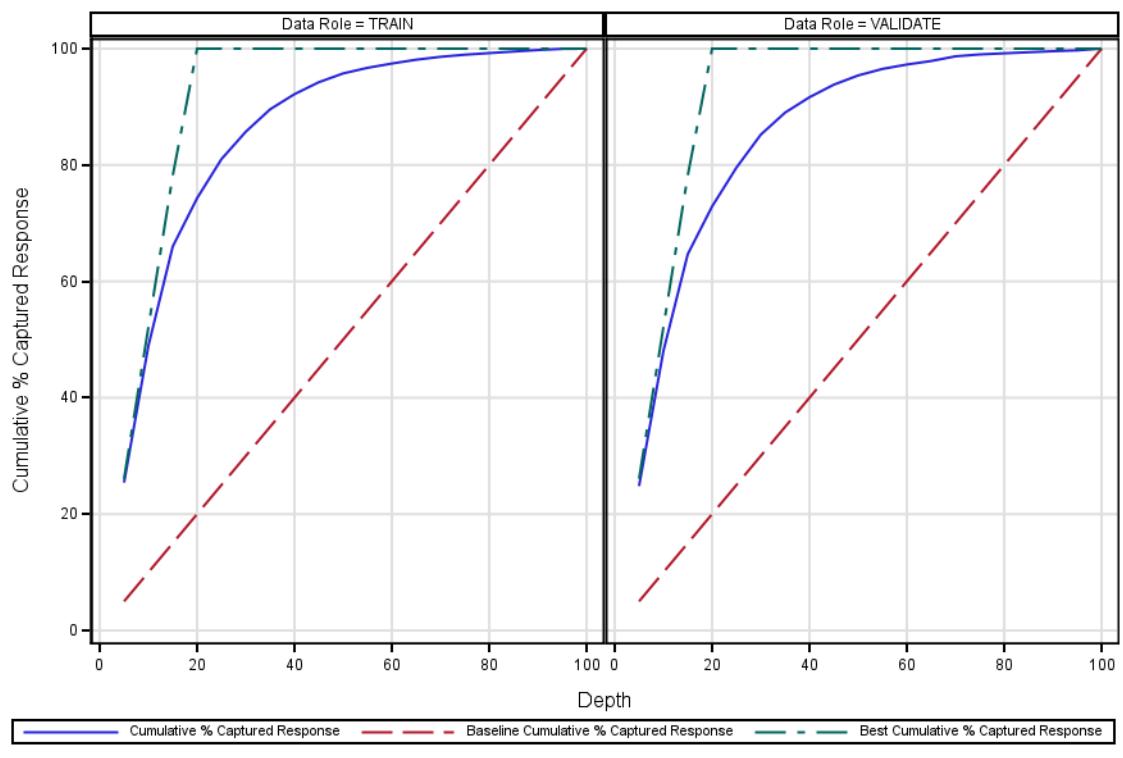


SAS Enterprise Miner Report
Node=Decision Tree B2D14
Model Iteration Plots

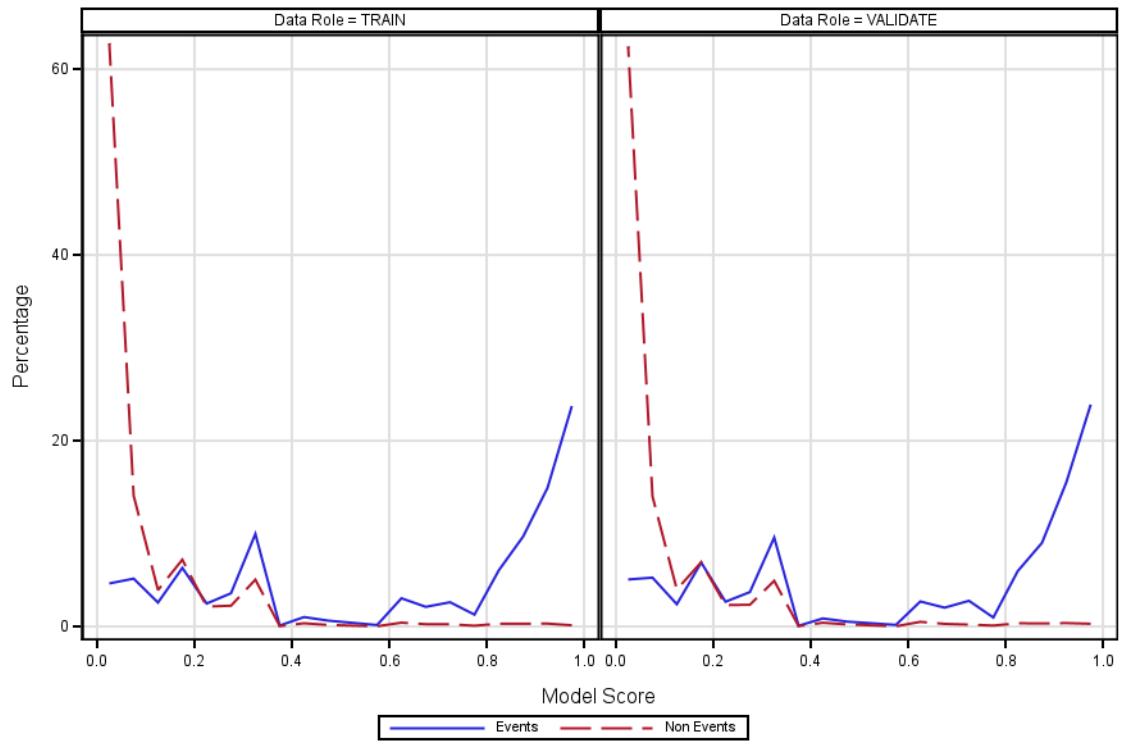




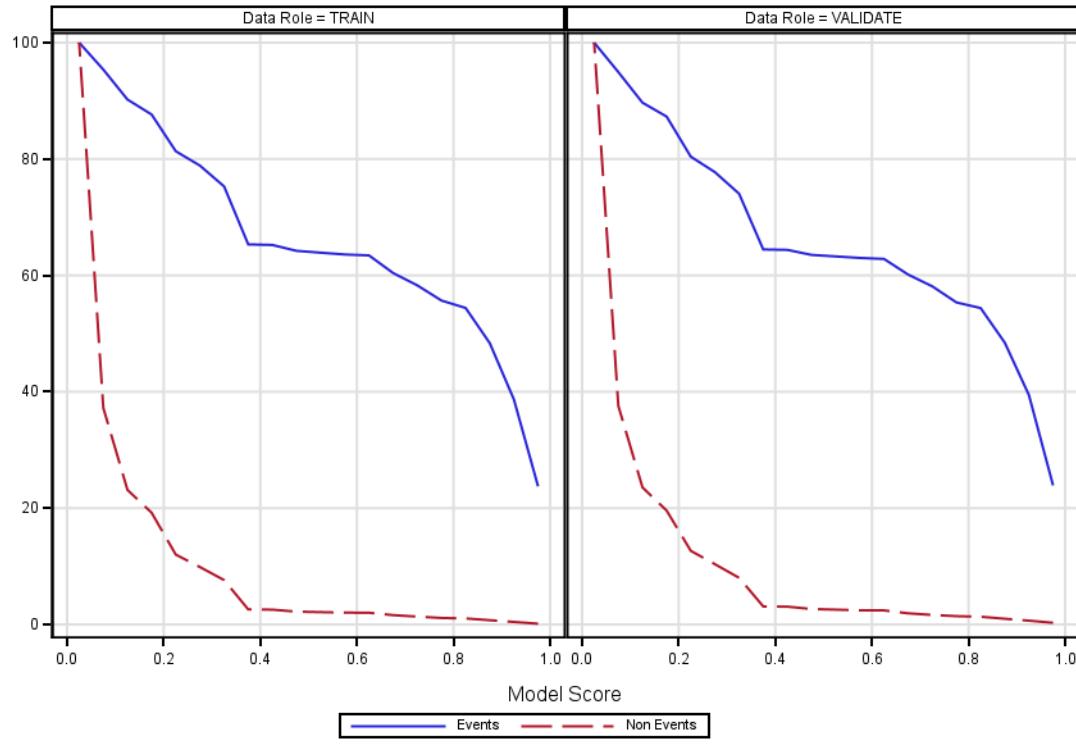
SAS Enterprise Miner Report
 Node=Decision Tree B2D14
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B2D14
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B2D14
 Score Distributions where TARGET='score2'



Node=Decision Tree B2D14

Score Distributions

Target Variable=score2 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	2885	23.7351	0.1290	23.735	0.129
0.90-0.95	1814	14.9239	0.3087	38.659	0.438
0.85-0.90	1178	9.6915	0.2970	48.350	0.735
0.80-0.85	735	6.0469	0.3009	54.397	1.036
0.75-0.80	155	1.2752	0.0821	55.673	1.118
0.70-0.75	317	2.6080	0.2364	58.281	1.354
0.65-0.70	257	2.1144	0.2501	60.395	1.604
0.60-0.65	369	3.0358	0.4084	63.431	2.013
0.55-0.60	19	0.1563	0.0254	63.587	2.038
0.45-0.50	76	0.6253	0.1641	64.212	2.202
0.40-0.45	123	1.0119	0.3439	65.224	2.546
0.35-0.40	12	0.0987	0.0410	65.323	2.587
0.30-0.35	1211	9.9630	5.0434	75.286	7.631
0.25-0.30	435	3.5788	2.2354	78.865	9.866
0.20-0.25	300	2.4681	2.1416	81.333	12.008
0.15-0.20	767	6.3102	7.1967	87.643	19.204
0.10-0.15	313	2.5751	3.9237	90.218	23.128
0.05-0.10	626	5.1501	14.0847	95.368	37.213
0.00-0.05	563	4.6318	62.7872	100.000	100.000

Target Variable=score2 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	968	23.8953	0.2931	23.895	0.293
0.90-0.95	629	15.5270	0.3634	39.422	0.657
0.85-0.90	365	9.0101	0.3283	48.432	0.985
0.80-0.85	241	5.9491	0.3459	54.382	1.331
0.75-0.80	39	0.9627	0.0997	55.344	1.430
0.70-0.75	112	2.7647	0.2052	58.109	1.636
0.65-0.70	82	2.0242	0.2814	60.133	1.917
0.60-0.65	109	2.6907	0.4983	62.824	2.415
0.55-0.60	7	0.1728	0.0234	62.997	2.439
0.45-0.50	21	0.5184	0.2228	63.515	2.661
0.40-0.45	35	0.8640	0.3986	64.379	3.060
0.35-0.40	3	0.0741	0.0410	64.453	3.101
0.30-0.35	388	9.5779	4.9182	74.031	8.019
0.25-0.30	150	3.7028	2.3389	77.734	10.358
0.20-0.25	108	2.6660	2.2979	80.400	12.656
0.15-0.20	279	6.8872	6.9172	87.287	19.573
0.10-0.15	97	2.3945	3.9862	89.682	23.559
0.05-0.10	213	5.2580	14.0043	94.940	37.564
0.00-0.05	205	5.0605	62.4363	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D8 Summary

Node id = Tree2
 Node label = Decision Tree B3D8
 Meta path = Ids => Part => Tree2
 Notes =

Node=Decision Tree B3D8 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	8	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 B3D8 Variable Summary

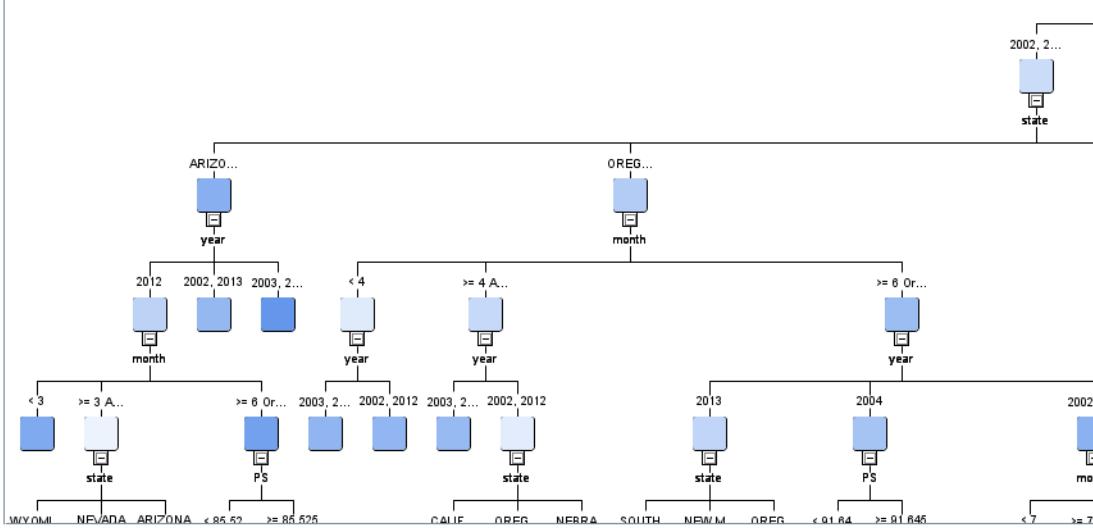
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D8 Model Fit Statistics

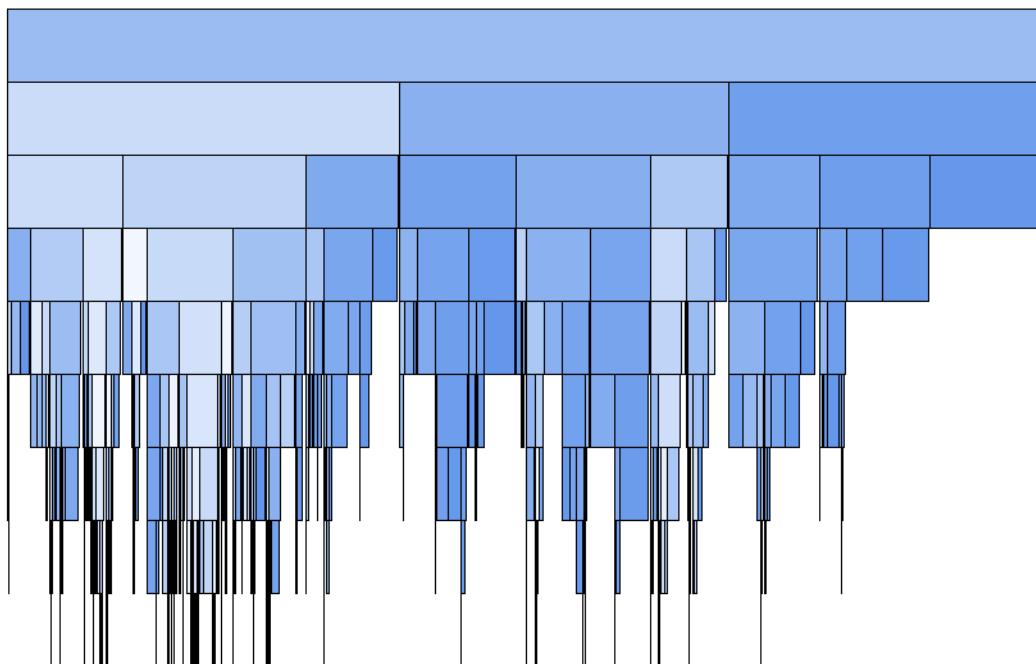
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.09	0.09	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	8462.19	2934.75	3108.74
Average Squared Error	0.07	0.07	0.07
Root Average Squared Error	0.26	0.26	0.27
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

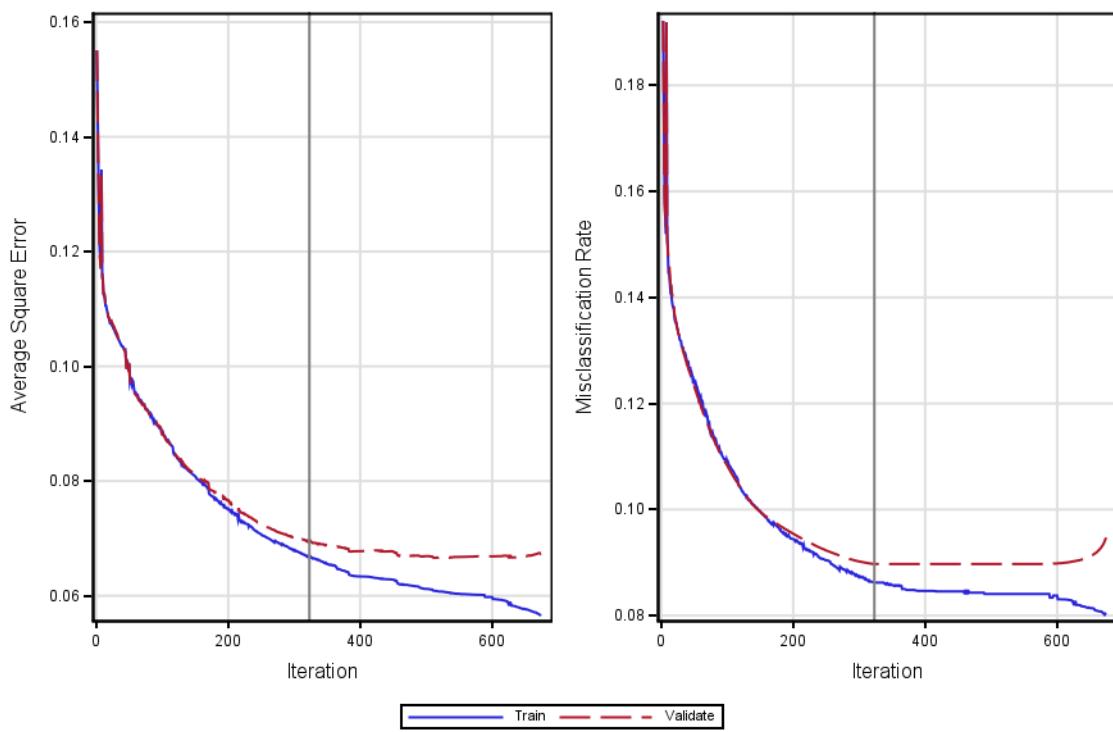
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Tree Diagram

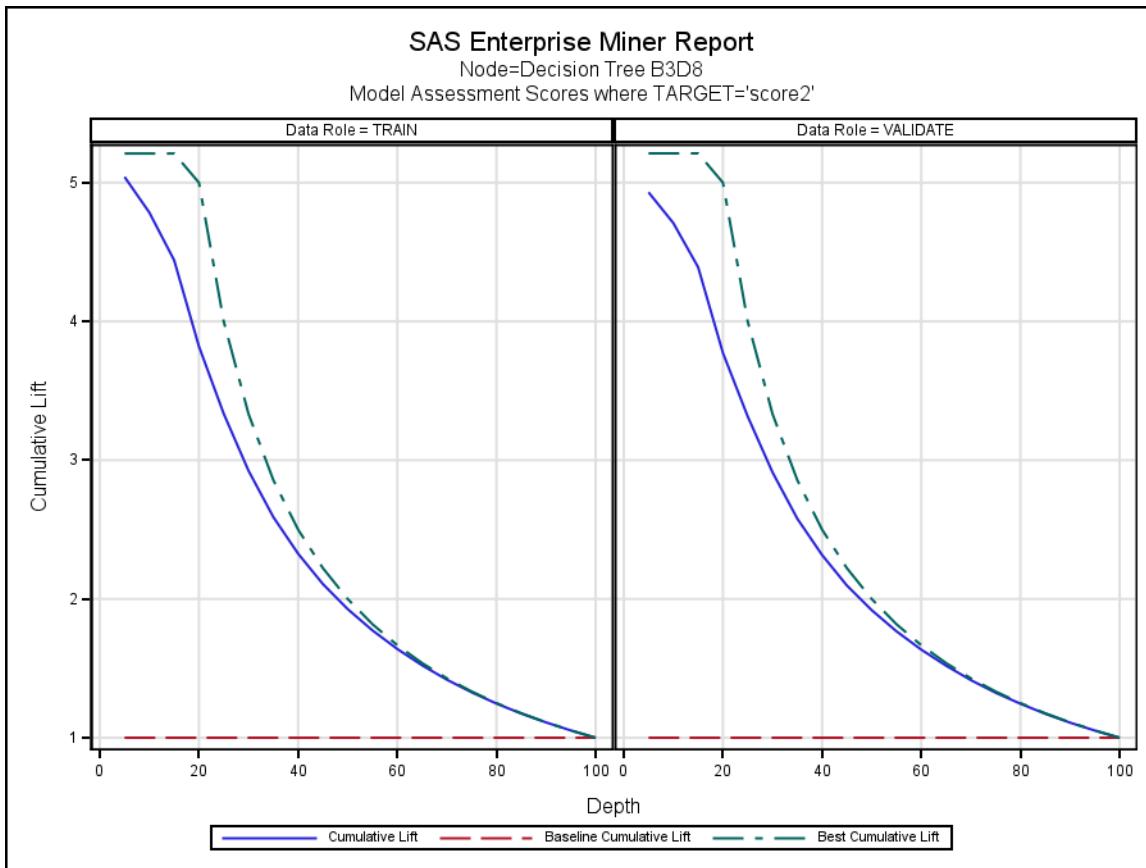
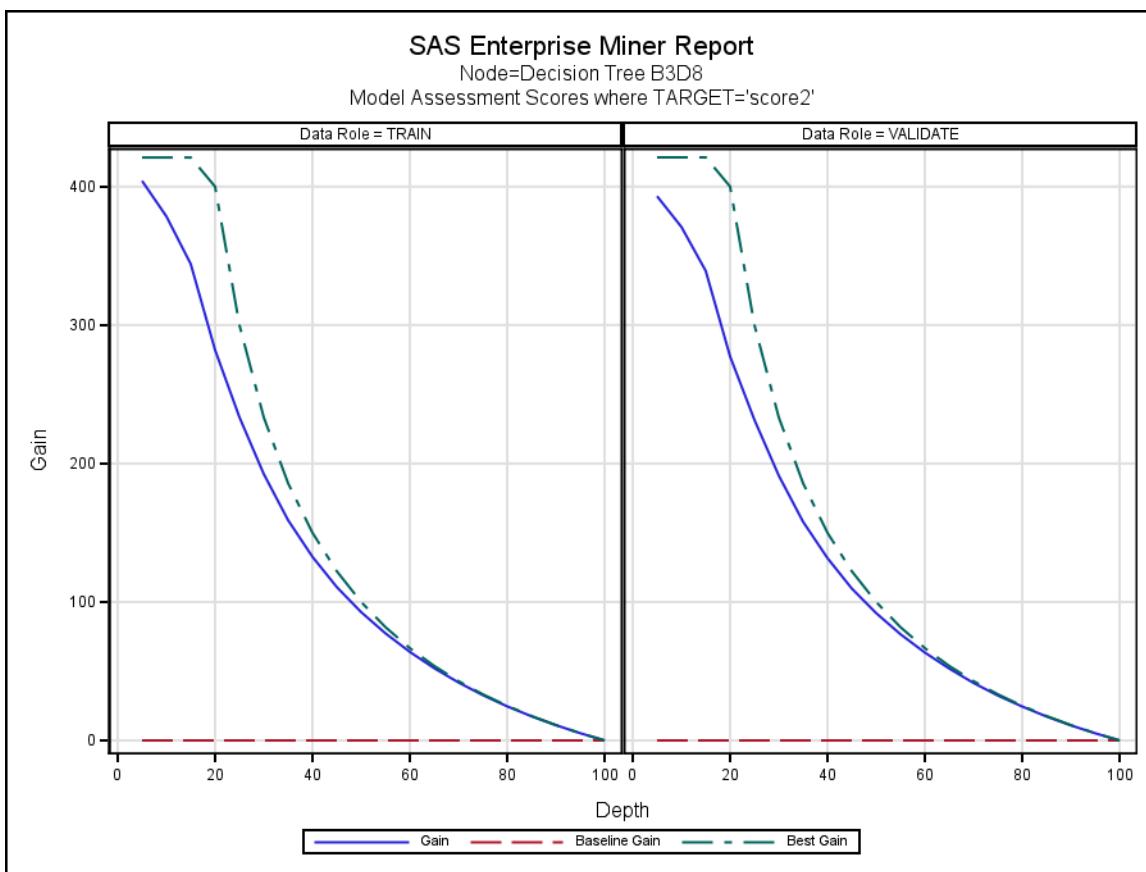


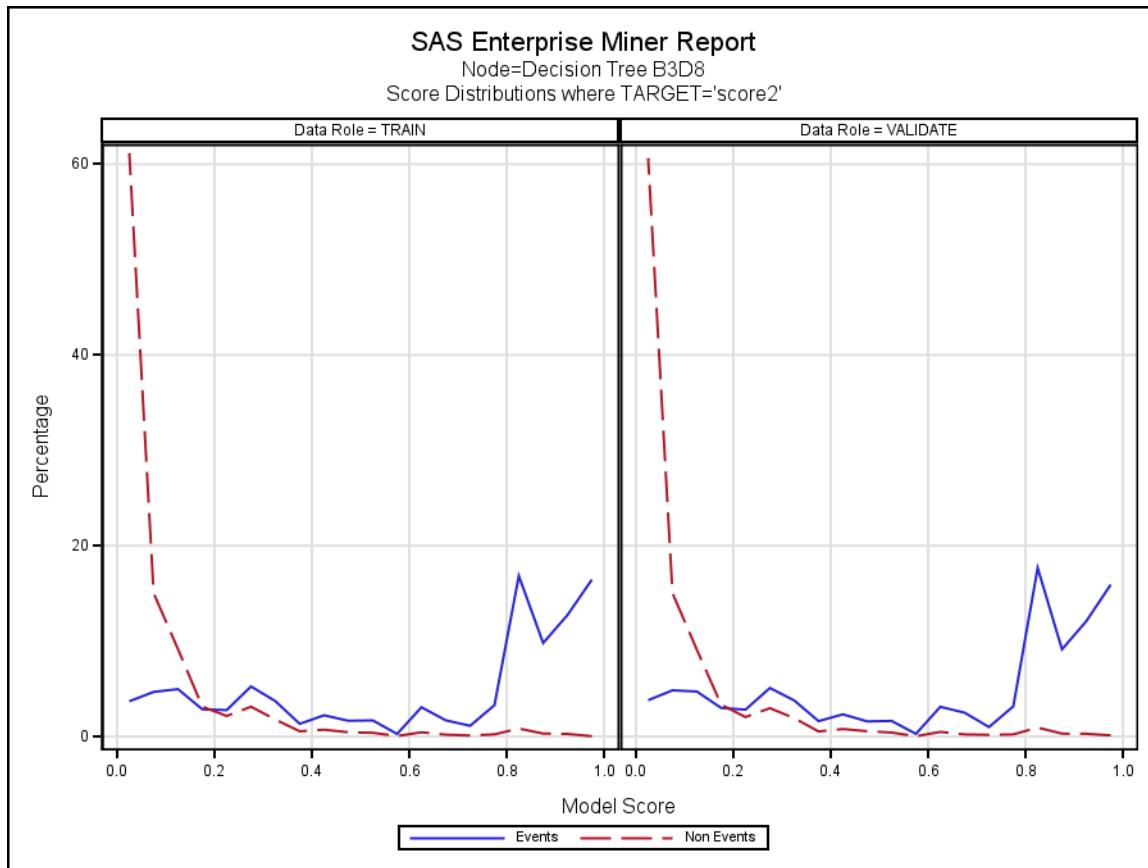
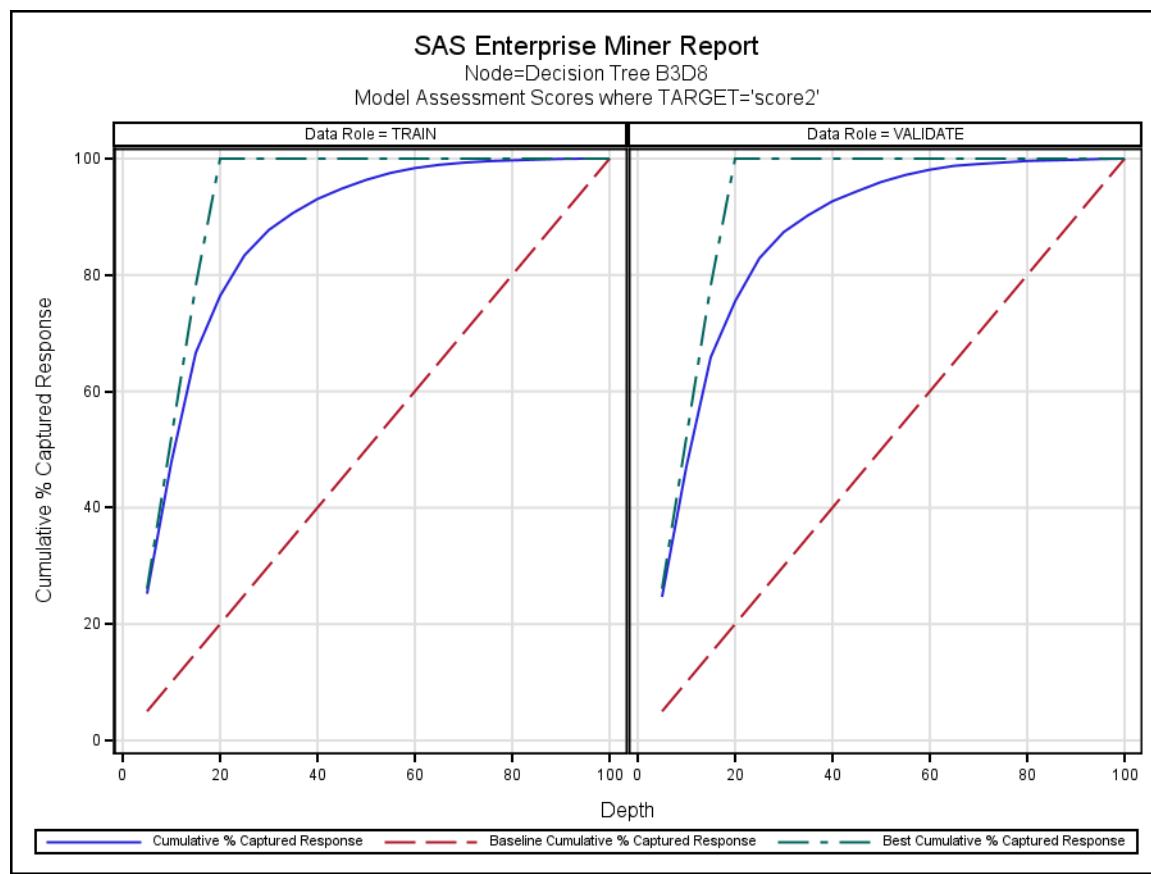
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Treemap



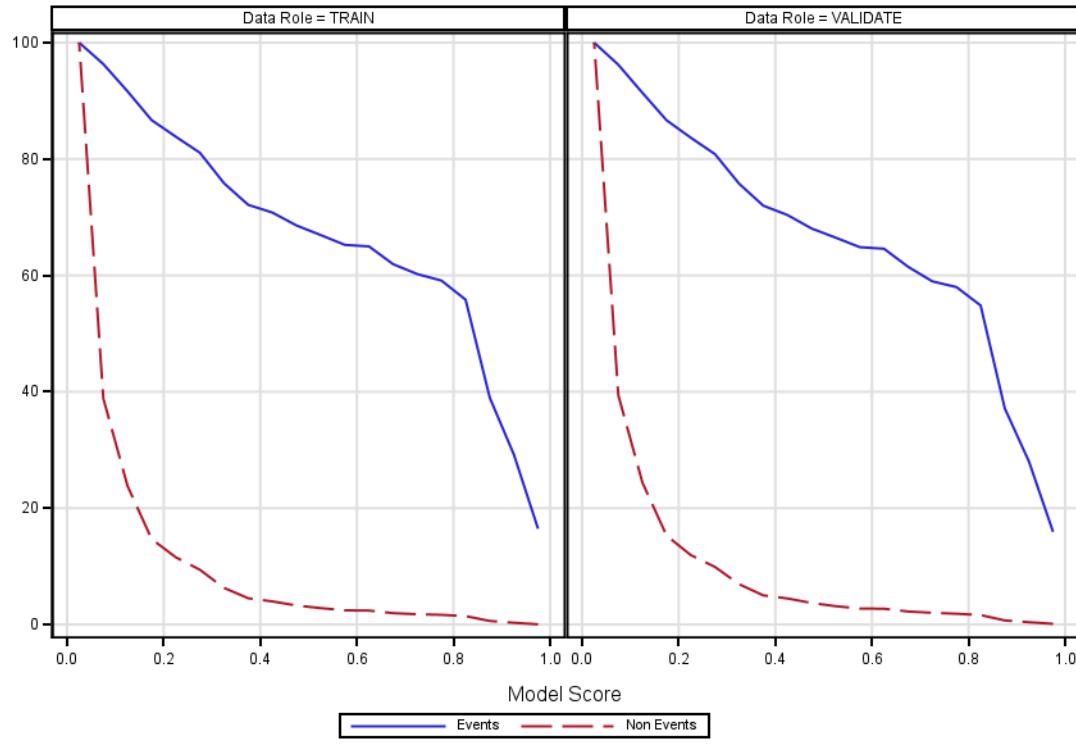
SAS Enterprise Miner Report
Node=Decision Tree B3D8
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B3D8
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D8
Score Distributions

Target Variable=score2 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	1999	16.4459	0.0274	16.446	0.027
0.90-0.95	1548	12.7355	0.2677	29.181	0.295
0.85-0.90	1191	9.7984	0.3087	38.980	0.604
0.80-0.85	2047	16.8408	0.8305	55.821	1.434
0.75-0.80	399	3.2826	0.2228	59.103	1.657
0.70-0.75	136	1.1189	0.0977	60.222	1.755
0.65-0.70	206	1.6948	0.1915	61.917	1.946
0.60-0.65	372	3.0605	0.4377	64.977	2.384
0.55-0.60	32	0.2633	0.0469	65.241	2.431
0.50-0.55	205	1.6865	0.3830	66.927	2.814
0.45-0.50	200	1.6454	0.4416	68.573	3.255
0.40-0.45	270	2.2213	0.7093	70.794	3.965
0.35-0.40	161	1.3246	0.5413	72.118	4.506
0.30-0.35	450	3.7022	1.7743	75.821	6.280
0.25-0.30	638	5.2489	3.1186	81.070	9.399
0.20-0.25	336	2.7643	2.1494	83.834	11.548
0.15-0.20	346	2.8466	3.1284	86.680	14.677
0.10-0.15	603	4.9609	9.1605	91.641	23.837
0.05-0.10	568	4.6730	15.0207	96.314	38.858
0.00-0.05	448	3.6857	61.1419	100.000	100.000

Target Variable=score2 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	645	15.9220	0.1114	15.922	0.111
0.90-0.95	490	12.0958	0.2814	28.018	0.393
0.85-0.90	370	9.1335	0.2990	37.151	0.692
0.80-0.85	716	17.6746	0.9321	54.826	1.624
0.75-0.80	128	3.1597	0.2169	57.986	1.841
0.70-0.75	40	0.9874	0.1700	58.973	2.011
0.65-0.70	101	2.4932	0.2169	61.466	2.228
0.60-0.65	126	3.1103	0.4807	64.577	2.708
0.55-0.60	11	0.2715	0.0234	64.848	2.732
0.50-0.55	66	1.6292	0.4103	66.477	3.142
0.45-0.50	64	1.5799	0.5510	68.057	3.693
0.40-0.45	94	2.3204	0.7796	70.378	4.473
0.35-0.40	65	1.6045	0.5276	71.982	5.000
0.30-0.35	153	3.7768	1.9227	75.759	6.923
0.25-0.30	206	5.0852	2.9662	80.844	9.889
0.20-0.25	114	2.8141	2.0341	83.658	11.923
0.15-0.20	121	2.9869	3.3355	86.645	15.259
0.10-0.15	191	4.7149	9.1037	91.360	24.363
0.05-0.10	196	4.8383	15.0302	96.198	39.393
0.00-0.05	154	3.8015	60.6073	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D12 Summary

Node id = Tree39
 Node label = Decision Tree B3D12
 Meta path = Ids => Part => Tree39
 Notes =

Node=Decision Tree B3D12 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	12	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 B3D12 Variable Summary

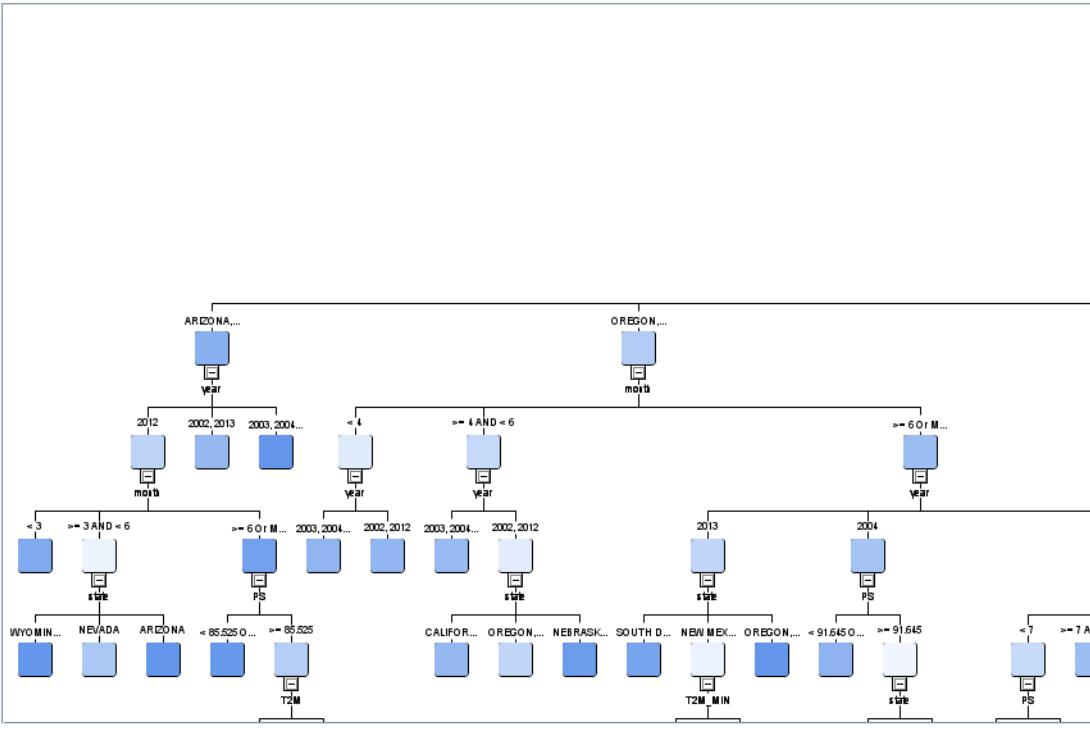
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D12 Model Fit Statistics

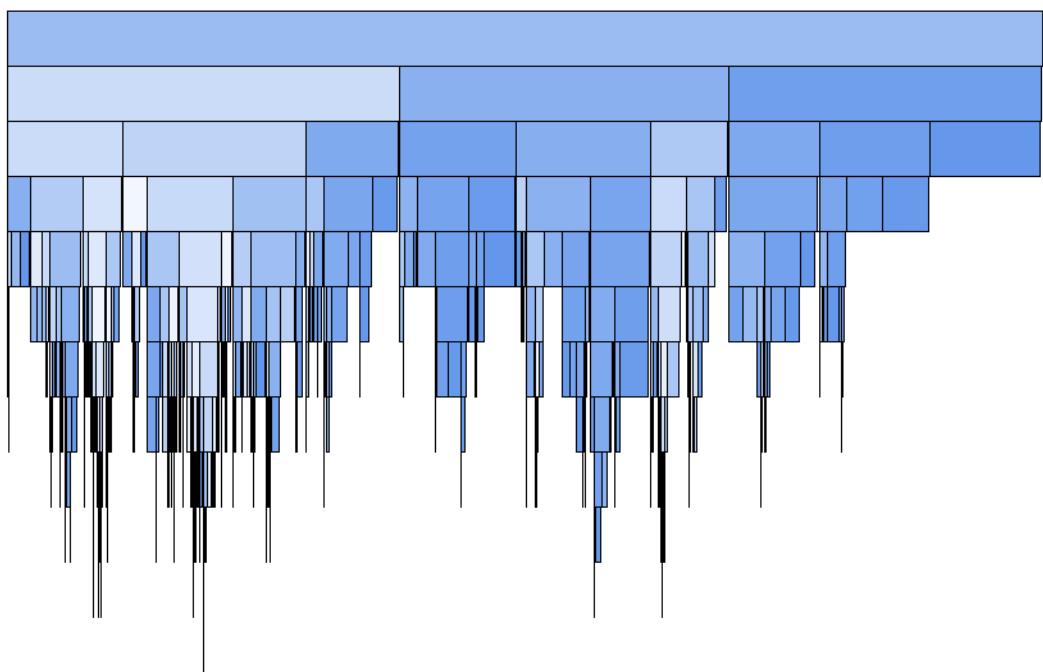
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.08	0.08	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	7861.56	2769.56	2961.93
Average Squared Error	0.06	0.07	0.07
Root Average Squared Error	0.25	0.26	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

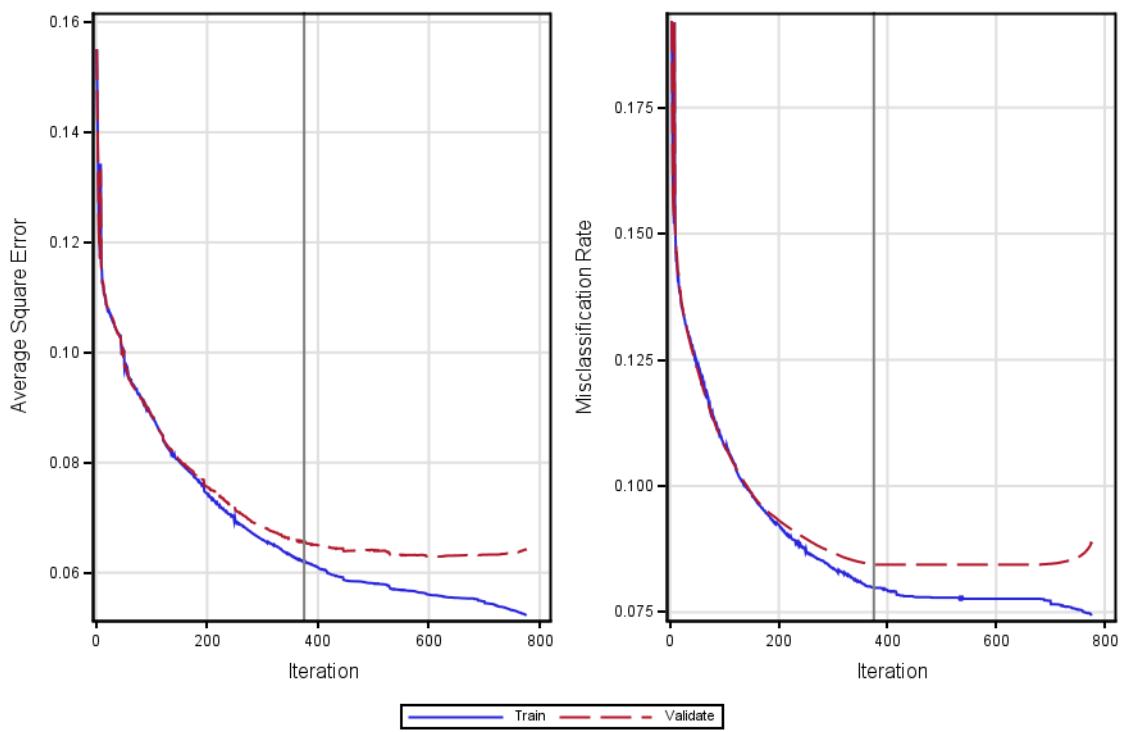
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Tree Diagram

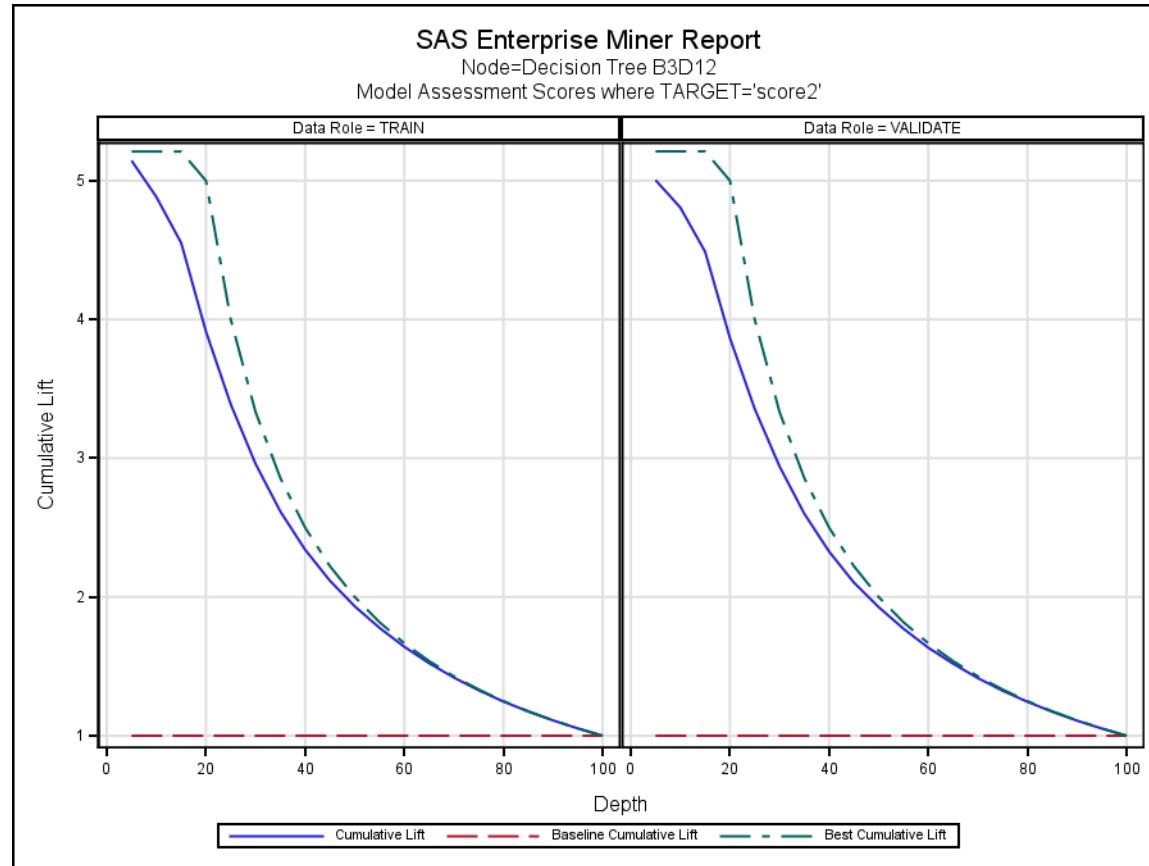
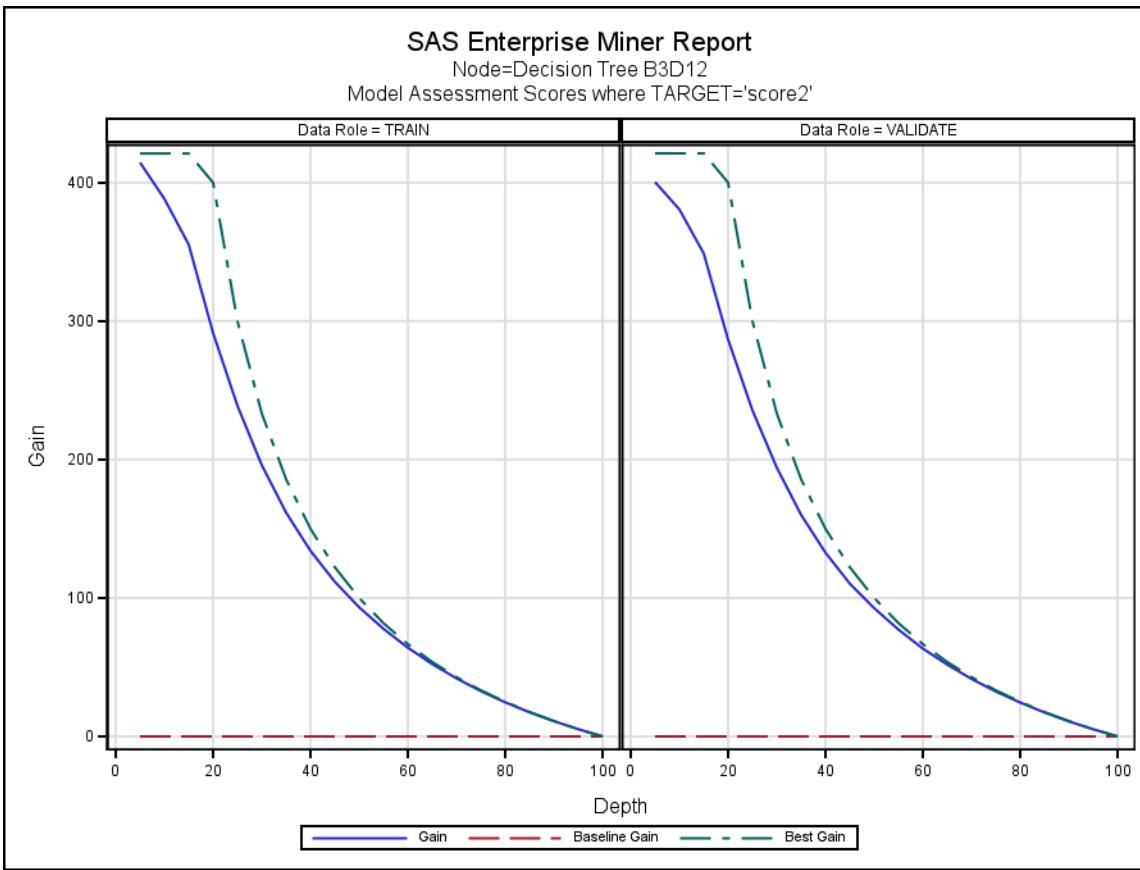


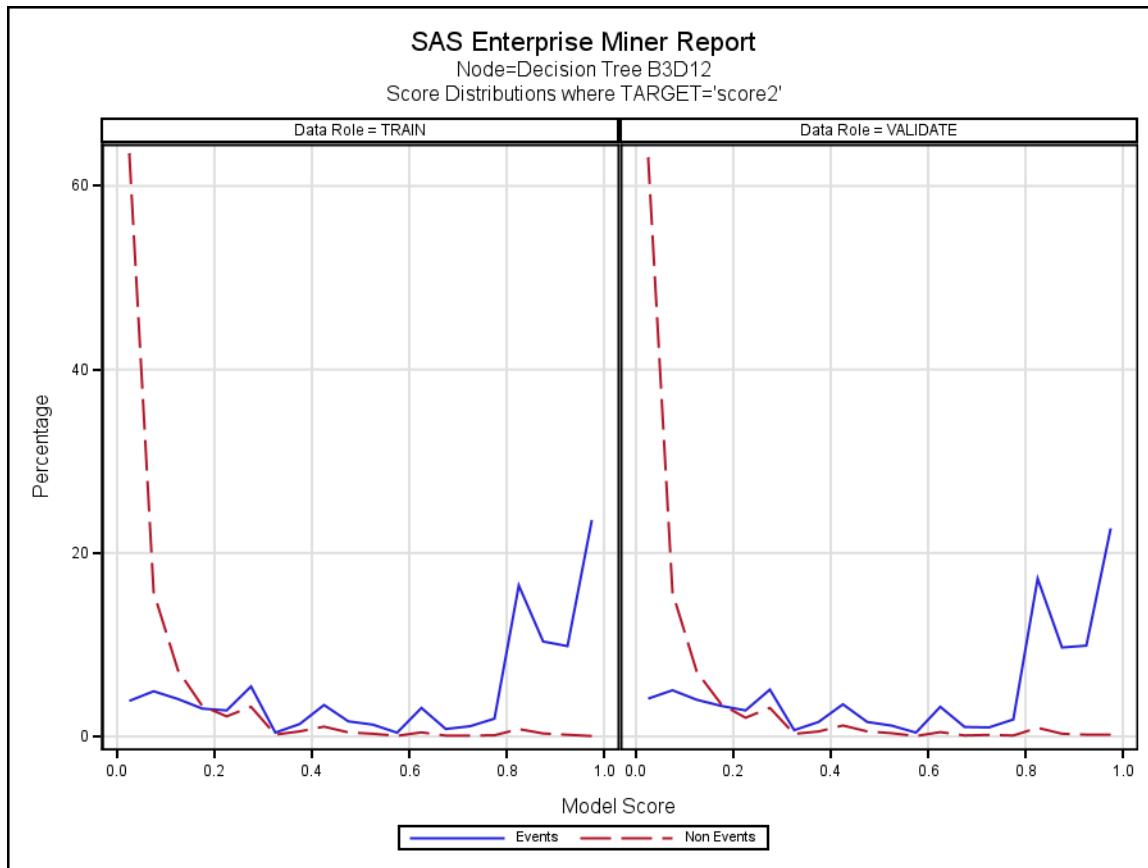
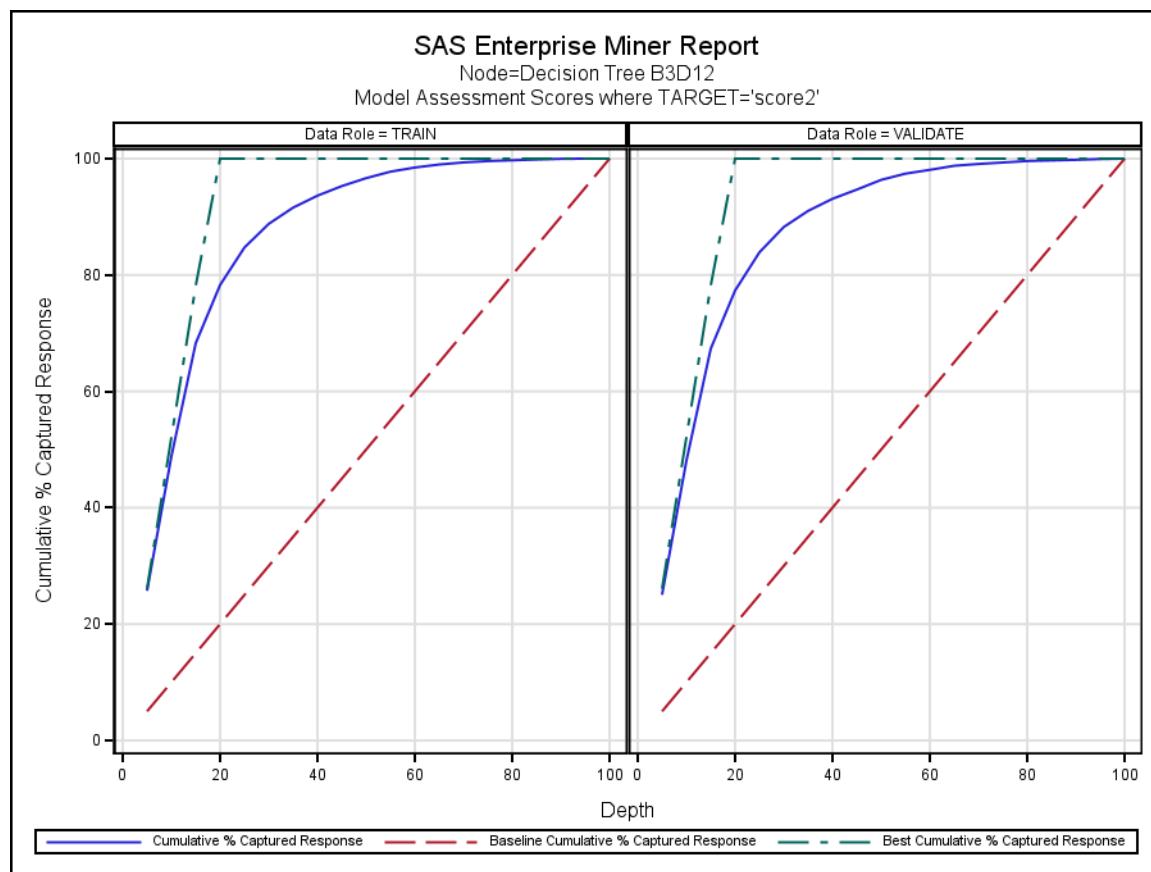
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Treemap



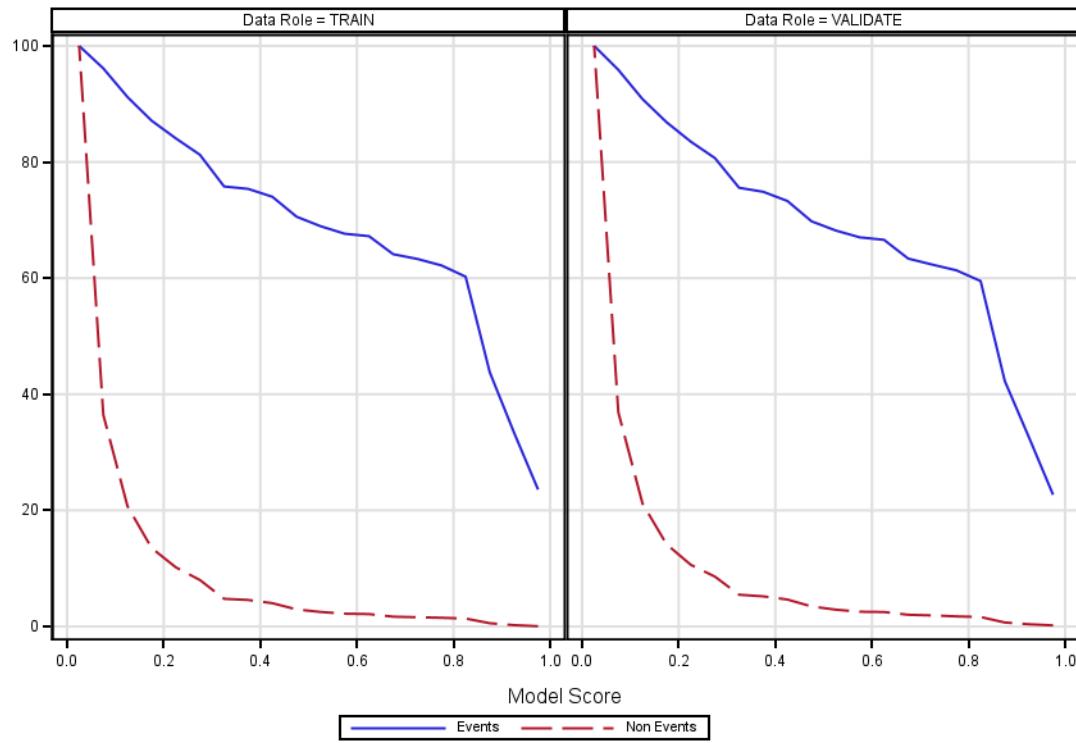
SAS Enterprise Miner Report
Node=Decision Tree B3D12
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B3D12
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D12

Score Distributions

Target Variable=score2 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	2867	23.5870	0.0489	23.587	0.049
0.90-0.95	1197	9.8478	0.1837	33.435	0.233
0.85-0.90	1258	10.3497	0.3283	43.784	0.561
0.80-0.85	2001	16.4624	0.8051	60.247	1.366
0.75-0.80	236	1.9416	0.1290	62.188	1.495
0.70-0.75	136	1.1189	0.0977	63.307	1.593
0.65-0.70	99	0.8145	0.0938	64.122	1.686
0.60-0.65	378	3.1098	0.4455	67.232	2.132
0.55-0.60	50	0.4114	0.0703	67.643	2.202
0.50-0.55	157	1.2916	0.2951	68.935	2.497
0.45-0.50	200	1.6454	0.4416	70.580	2.939
0.40-0.45	417	3.4307	1.0708	74.011	4.010
0.35-0.40	165	1.3575	0.5549	75.368	4.565
0.30-0.35	51	0.4196	0.2013	75.788	4.766
0.25-0.30	663	5.4545	3.2339	81.242	8.000
0.20-0.25	345	2.8383	2.1924	84.081	10.192
0.15-0.20	369	3.0358	3.3160	87.116	13.508
0.10-0.15	496	4.0806	7.2143	91.197	20.723
0.05-0.10	599	4.9280	15.7183	96.125	36.441
0.00-0.05	471	3.8749	63.5591	100.000	100.000

Target Variable=score2 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	919	22.6858	0.1876	22.686	0.188
0.90-0.95	401	9.8988	0.1993	32.585	0.387
0.85-0.90	393	9.7013	0.2990	42.286	0.686
0.80-0.85	697	17.2056	0.9438	59.491	1.630
0.75-0.80	75	1.8514	0.1055	61.343	1.735
0.70-0.75	40	0.9874	0.1700	62.330	1.905
0.65-0.70	42	1.0368	0.1114	63.367	2.017
0.60-0.65	131	3.2338	0.4748	66.601	2.491
0.55-0.60	17	0.4196	0.0469	67.020	2.538
0.50-0.55	48	1.1849	0.3576	68.205	2.896
0.45-0.50	64	1.5799	0.5510	69.785	3.447
0.40-0.45	142	3.5053	1.1958	73.291	4.643
0.35-0.40	64	1.5799	0.5452	74.870	5.188
0.30-0.35	28	0.6912	0.2814	75.562	5.469
0.25-0.30	207	5.1098	3.1127	80.671	8.582
0.20-0.25	115	2.8388	2.0400	83.510	10.622
0.15-0.20	135	3.3325	3.5231	86.843	14.145
0.10-0.15	162	3.9990	7.0403	90.842	21.185
0.05-0.10	204	5.0358	15.6985	95.878	36.884
0.00-0.05	167	4.1224	63.1162	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B3D16 Summary

Node id = Tree40
 Node label = Decision Tree B3D16
 Meta path = Ids => Part => Tree40
 Notes =

Node=Decision Tree B3D16 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	3	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	16	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 B3D16 Variable Summary

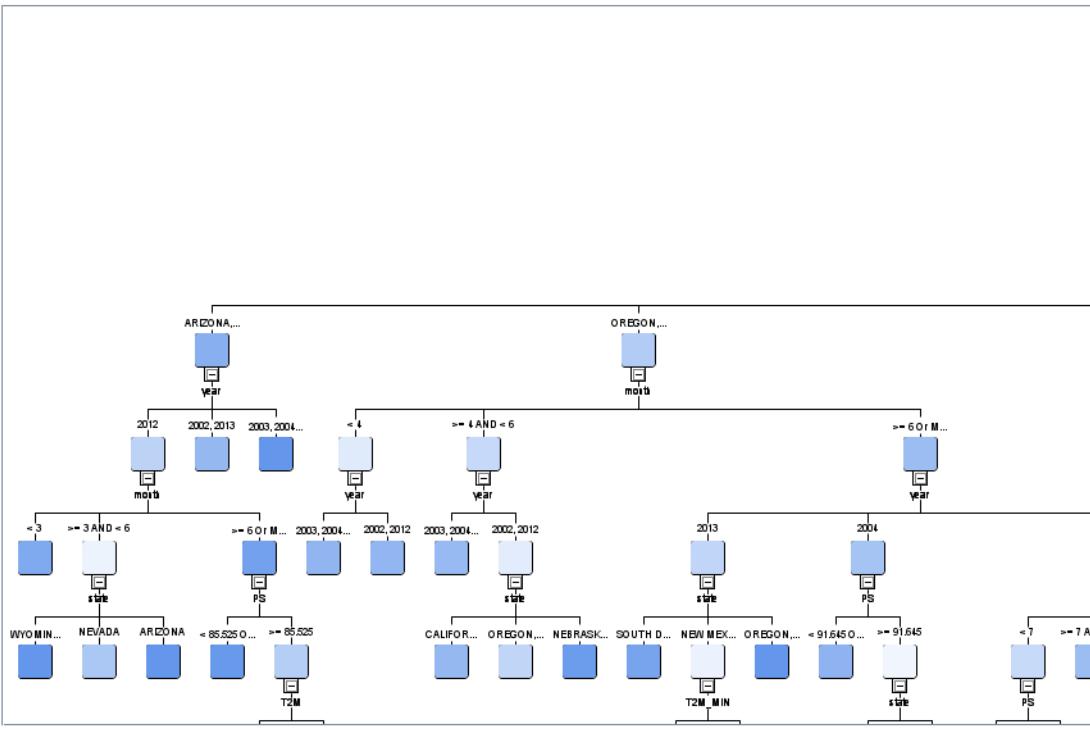
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B3D16 Model Fit Statistics

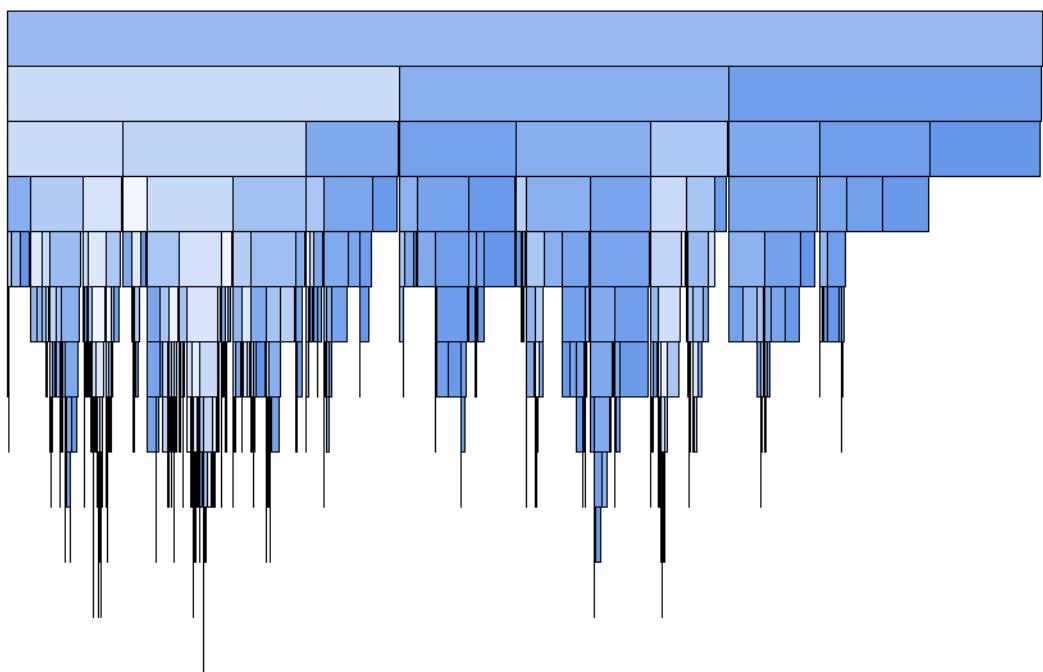
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.08	0.08	0.09
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	7861.56	2769.56	2961.93
Average Squared Error	0.06	0.07	0.07
Root Average Squared Error	0.25	0.26	0.26
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

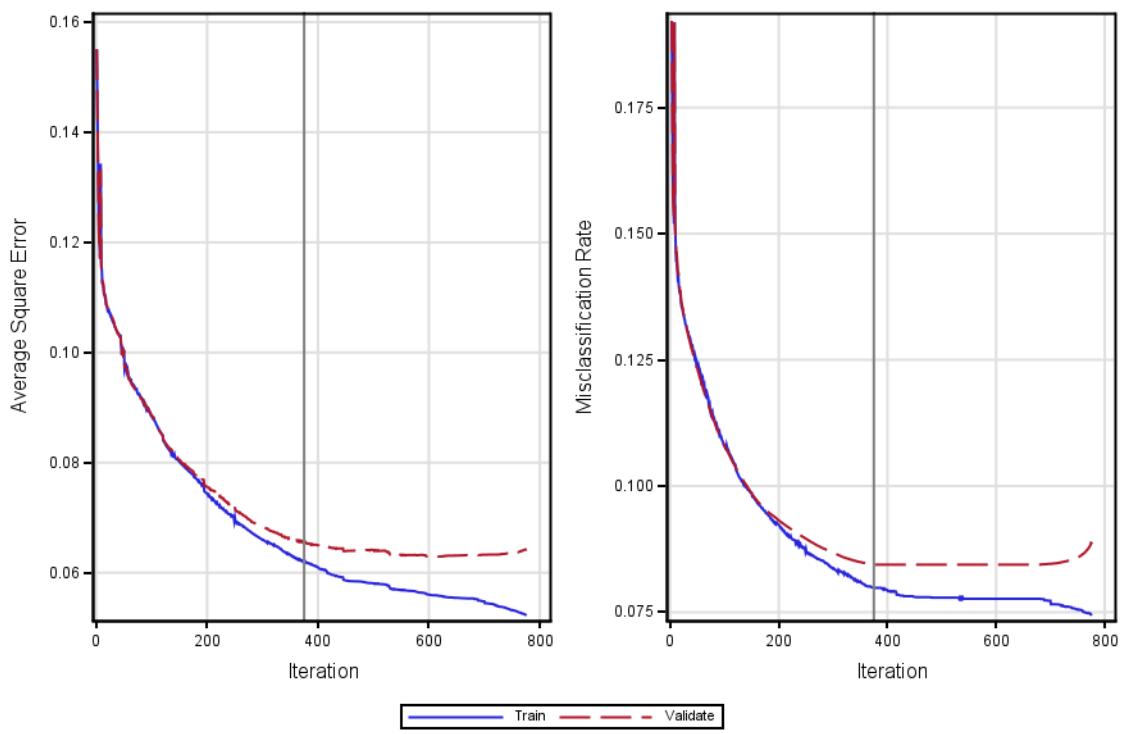
SAS Enterprise Miner Report
Node=Decision Tree B3D16
Tree Diagram

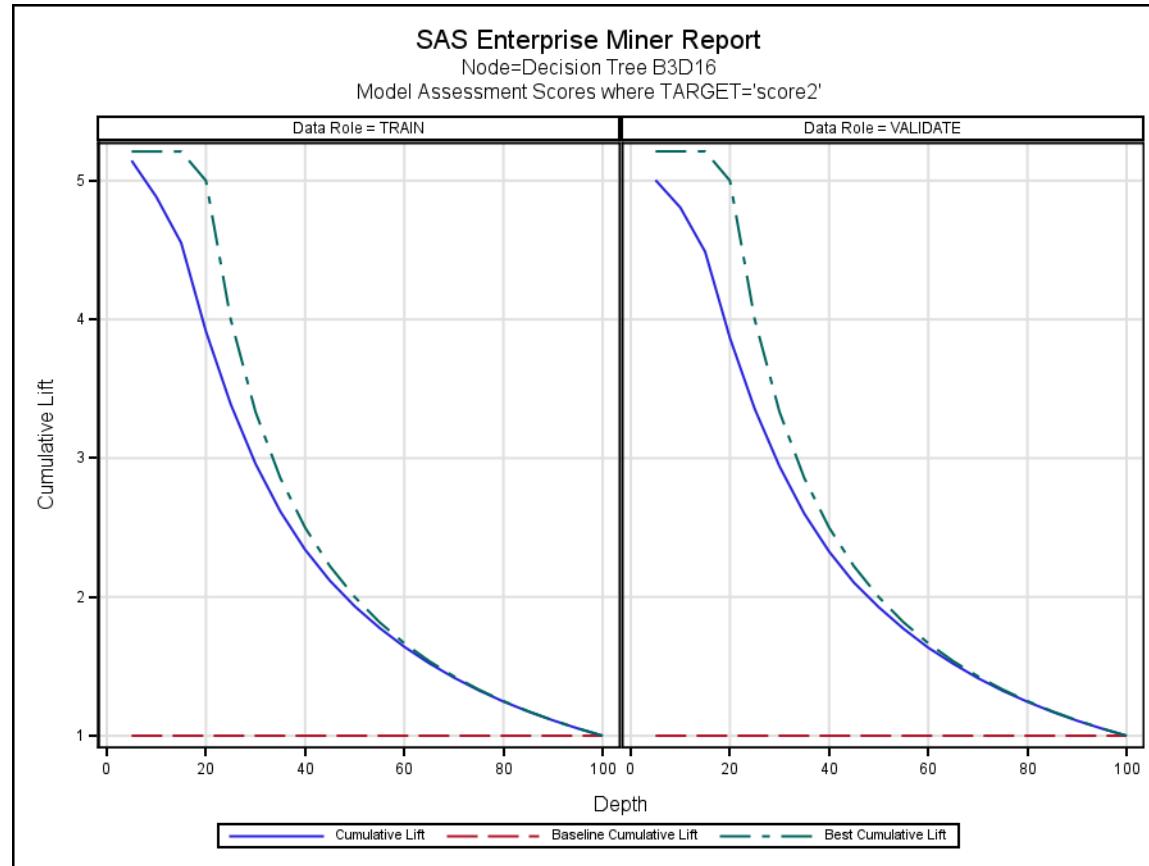
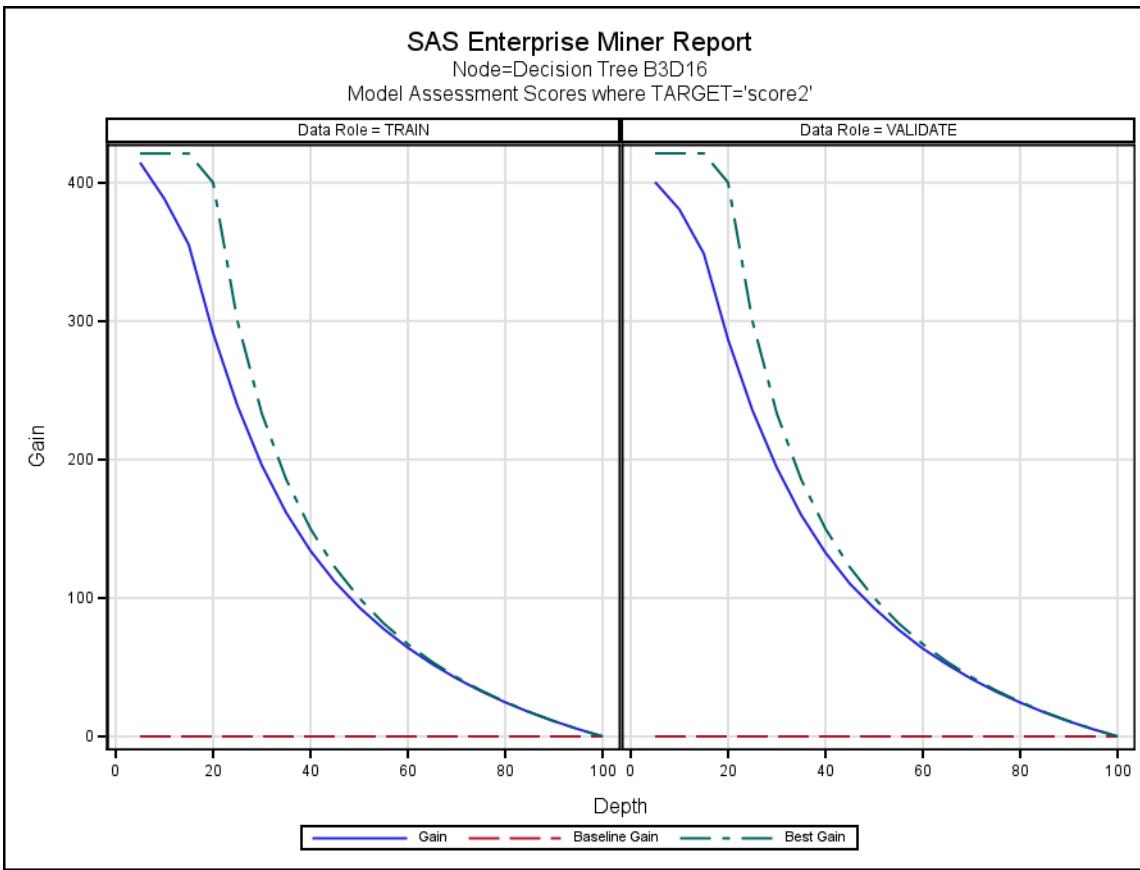


SAS Enterprise Miner Report
Node=Decision Tree B3D16
Treemap

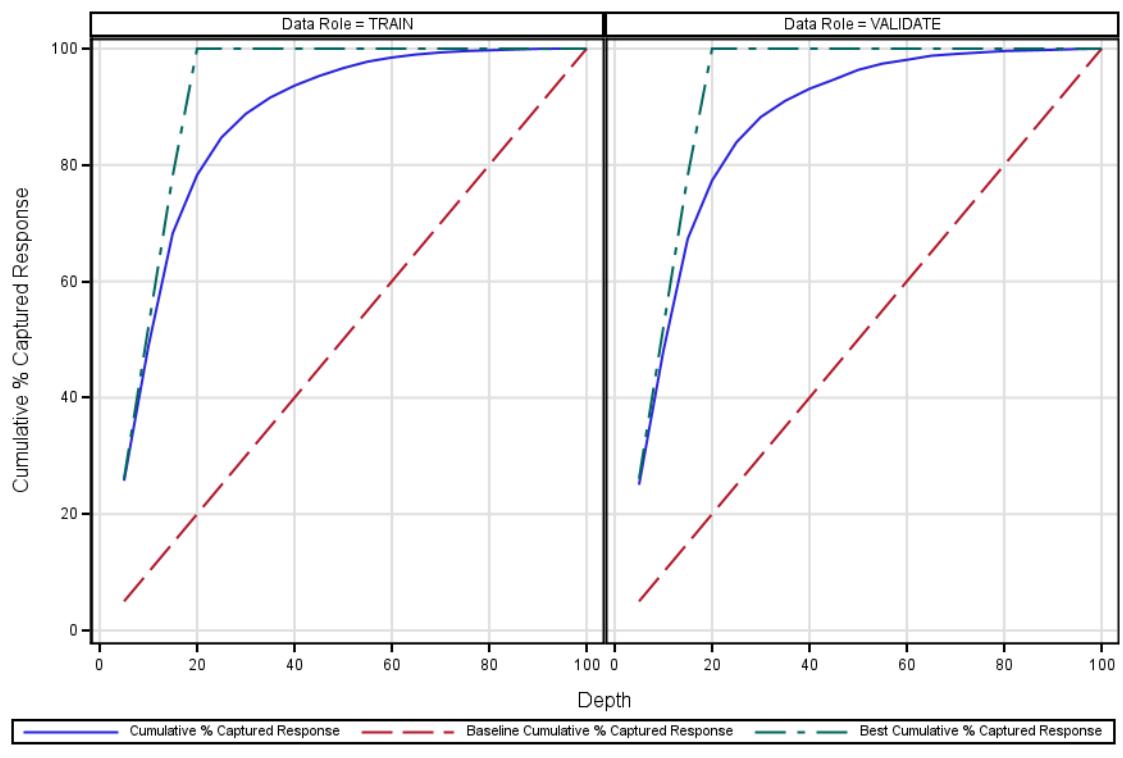


SAS Enterprise Miner Report
Node=Decision Tree B3D16
Model Iteration Plots

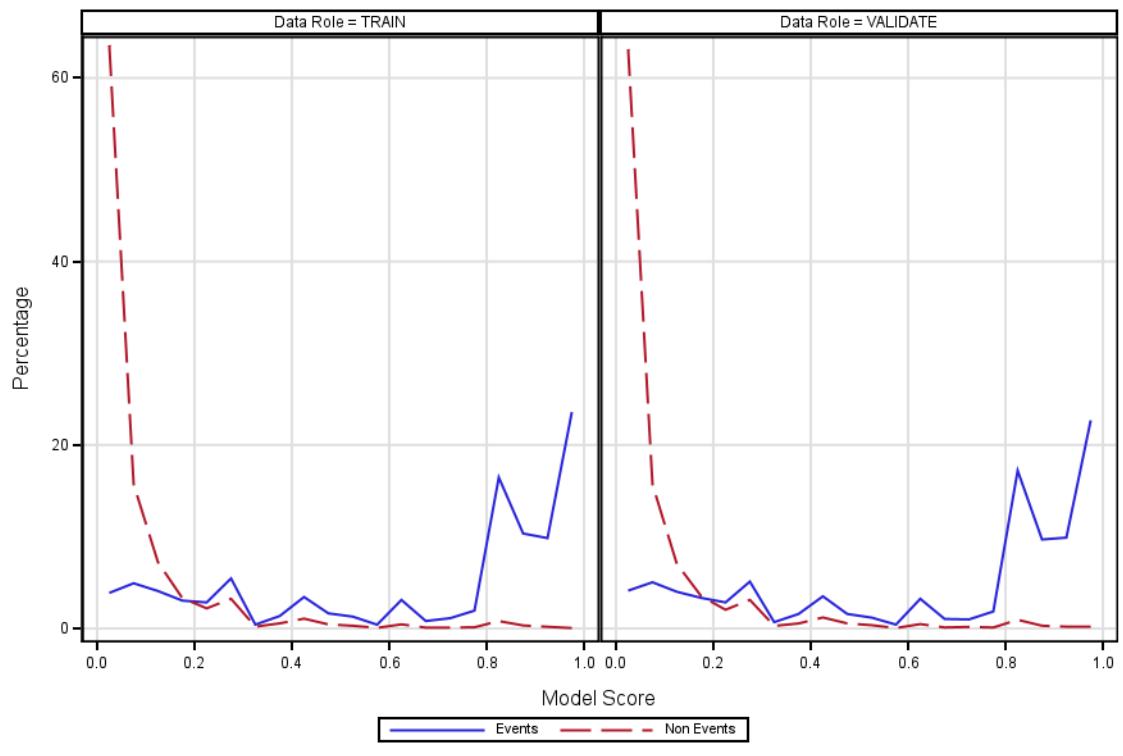




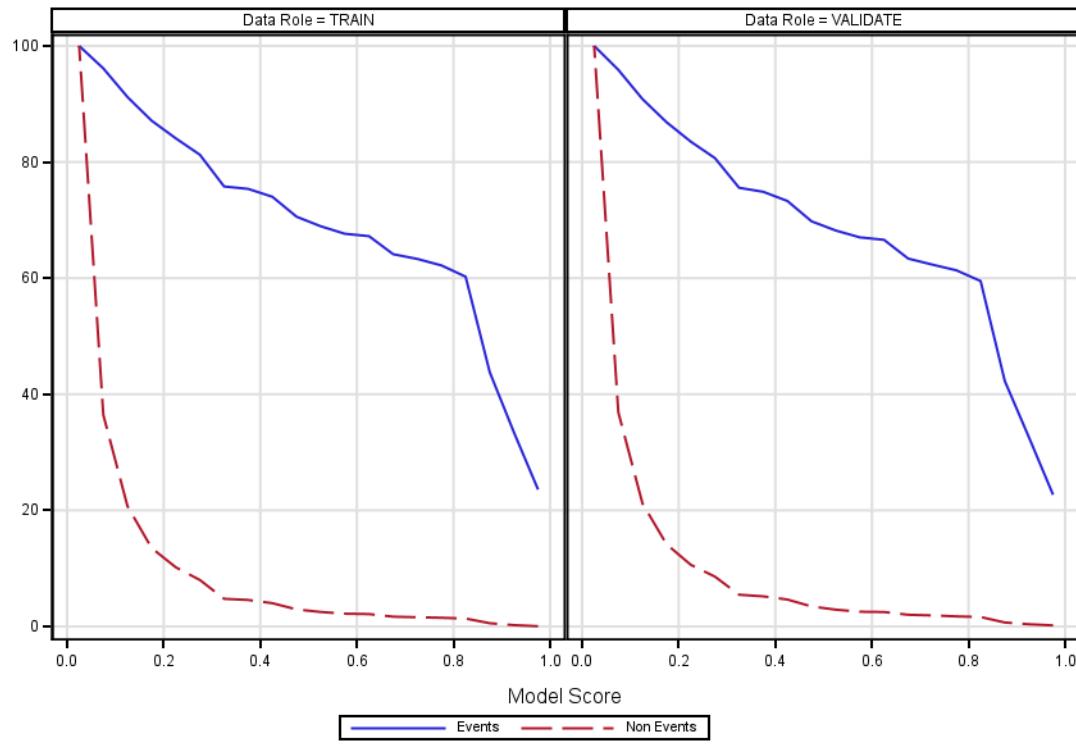
SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B3D16
 Score Distributions where TARGET='score2'



Node=Decision Tree B3D16

Score Distributions

Target Variable=score2 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	2867	23.5870	0.0489	23.587	0.049
0.90-0.95	1197	9.8478	0.1837	33.435	0.233
0.85-0.90	1258	10.3497	0.3283	43.784	0.561
0.80-0.85	2001	16.4624	0.8051	60.247	1.366
0.75-0.80	236	1.9416	0.1290	62.188	1.495
0.70-0.75	136	1.1189	0.0977	63.307	1.593
0.65-0.70	99	0.8145	0.0938	64.122	1.686
0.60-0.65	378	3.1098	0.4455	67.232	2.132
0.55-0.60	50	0.4114	0.0703	67.643	2.202
0.50-0.55	157	1.2916	0.2951	68.935	2.497
0.45-0.50	200	1.6454	0.4416	70.580	2.939
0.40-0.45	417	3.4307	1.0708	74.011	4.010
0.35-0.40	165	1.3575	0.5549	75.368	4.565
0.30-0.35	51	0.4196	0.2013	75.788	4.766
0.25-0.30	663	5.4545	3.2339	81.242	8.000
0.20-0.25	345	2.8383	2.1924	84.081	10.192
0.15-0.20	369	3.0358	3.3160	87.116	13.508
0.10-0.15	496	4.0806	7.2143	91.197	20.723
0.05-0.10	599	4.9280	15.7183	96.125	36.441
0.00-0.05	471	3.8749	63.5591	100.000	100.000

Target Variable=score2 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	919	22.6858	0.1876	22.686	0.188
0.90-0.95	401	9.8988	0.1993	32.585	0.387
0.85-0.90	393	9.7013	0.2990	42.286	0.686
0.80-0.85	697	17.2056	0.9438	59.491	1.630
0.75-0.80	75	1.8514	0.1055	61.343	1.735
0.70-0.75	40	0.9874	0.1700	62.330	1.905
0.65-0.70	42	1.0368	0.1114	63.367	2.017
0.60-0.65	131	3.2338	0.4748	66.601	2.491
0.55-0.60	17	0.4196	0.0469	67.020	2.538
0.50-0.55	48	1.1849	0.3576	68.205	2.896
0.45-0.50	64	1.5799	0.5510	69.785	3.447
0.40-0.45	142	3.5053	1.1958	73.291	4.643
0.35-0.40	64	1.5799	0.5452	74.870	5.188
0.30-0.35	28	0.6912	0.2814	75.562	5.469
0.25-0.30	207	5.1098	3.1127	80.671	8.582
0.20-0.25	115	2.8388	2.0400	83.510	10.622
0.15-0.20	135	3.3325	3.5231	86.843	14.145
0.10-0.15	162	3.9990	7.0403	90.842	21.185
0.05-0.10	204	5.0358	15.6985	95.878	36.884
0.00-0.05	167	4.1224	63.1162	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B4D8 Summary

Node id = Tree42
 Node label = Decision Tree B4D8
 Meta path = Ids => Part => Tree42
 Notes =

Node=Decision Tree B4D8 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	8	6	SampleSeed	12345	
CVRepeat	1		MinCatSize	5		SampleSize	10000	
CVSeed	12345		MissingValue	USEINSEARCH		ShowNodeld	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 B4D8 Variable Summary

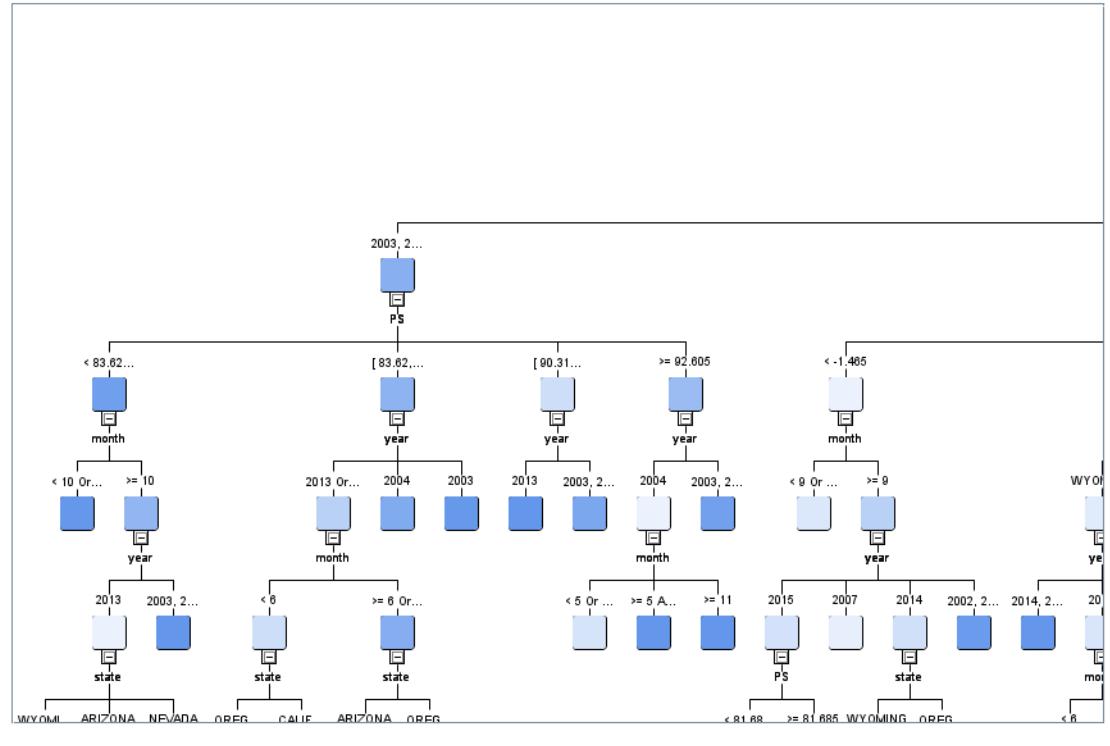
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D8 Model Fit Statistics

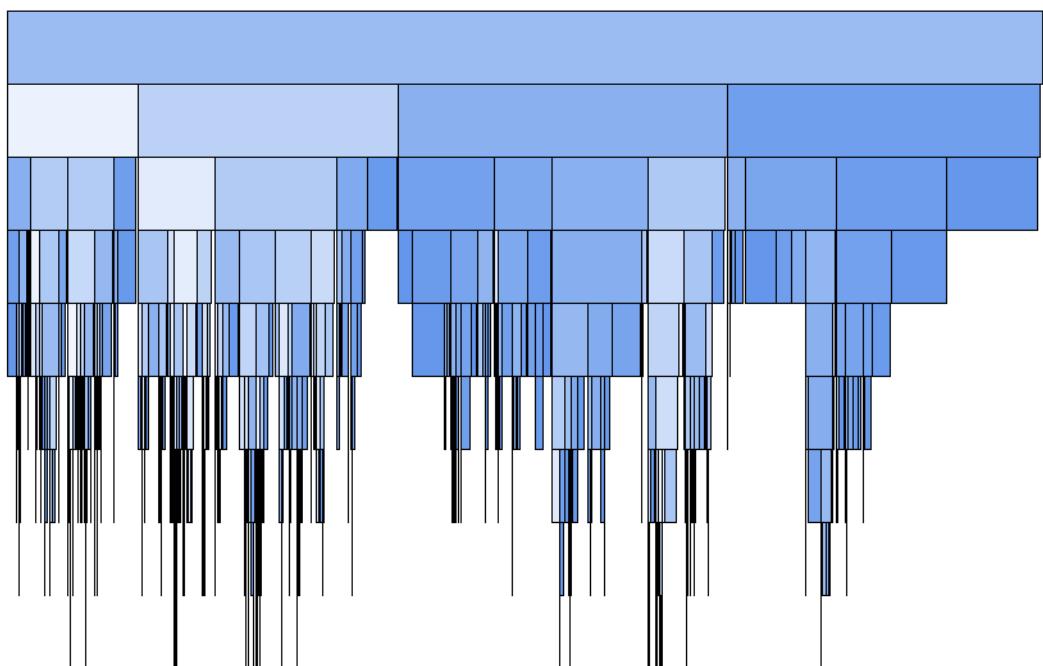
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6923.47	2503.60	2626.10
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.25
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

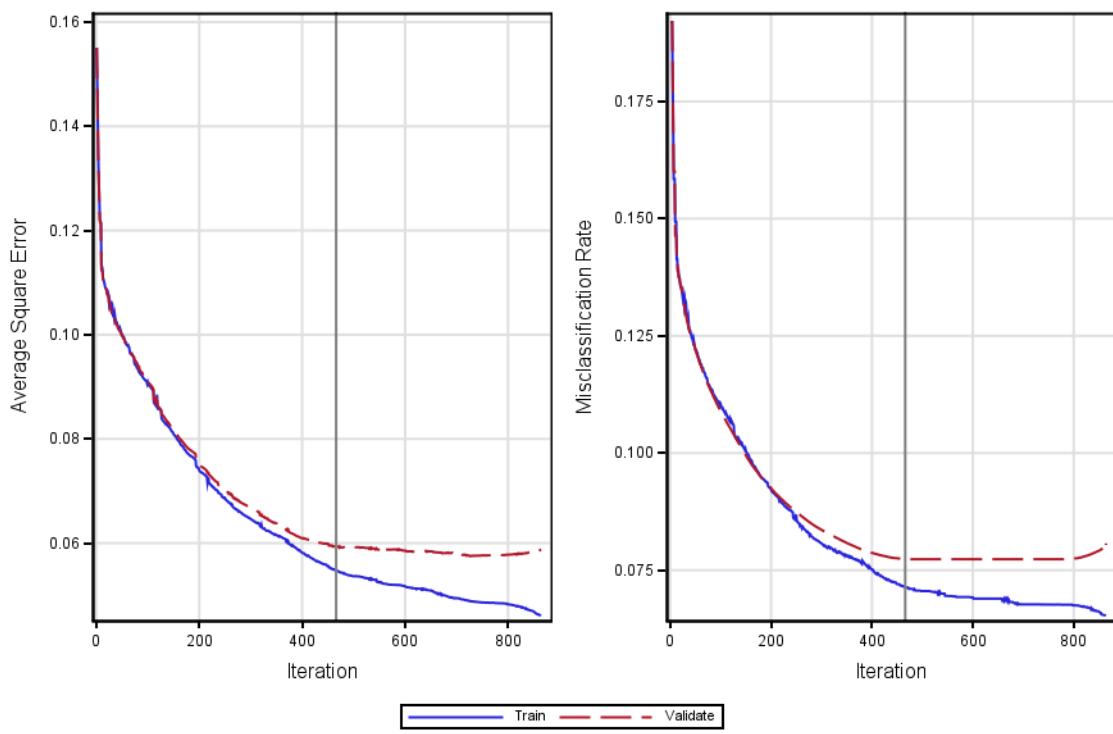
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Tree Diagram

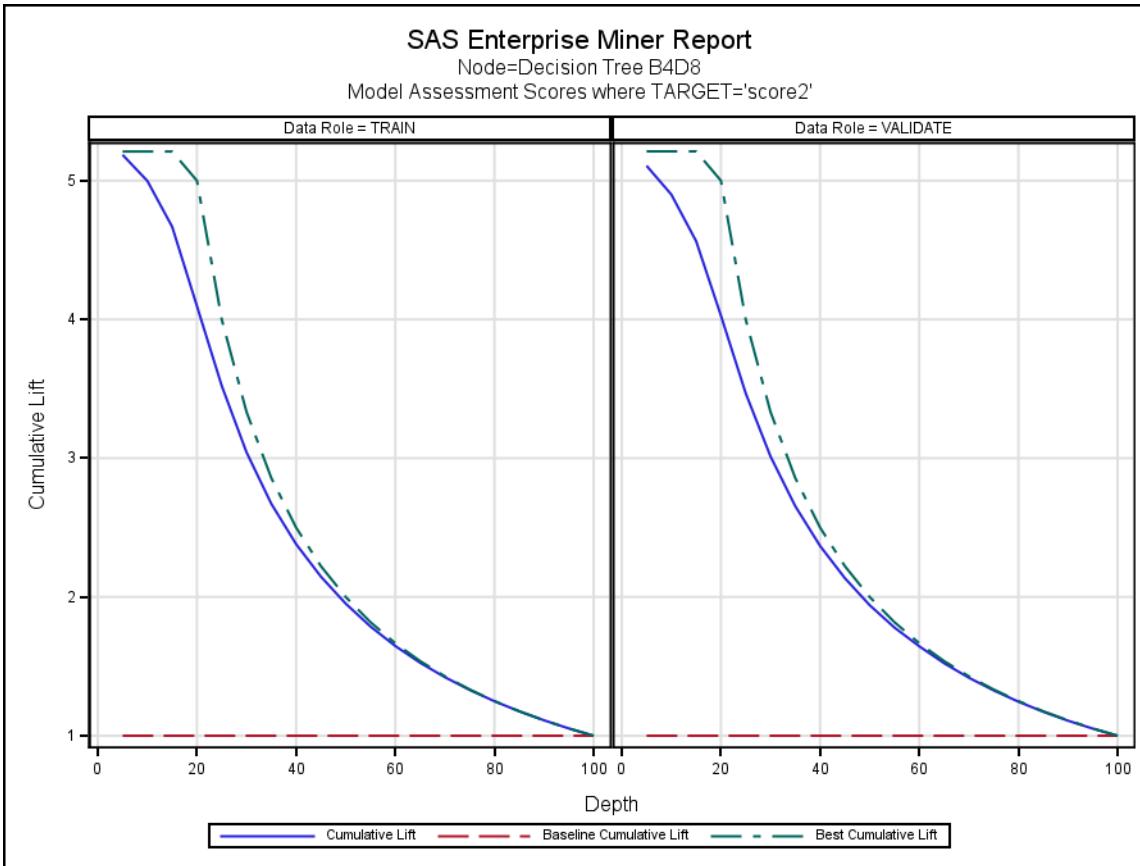
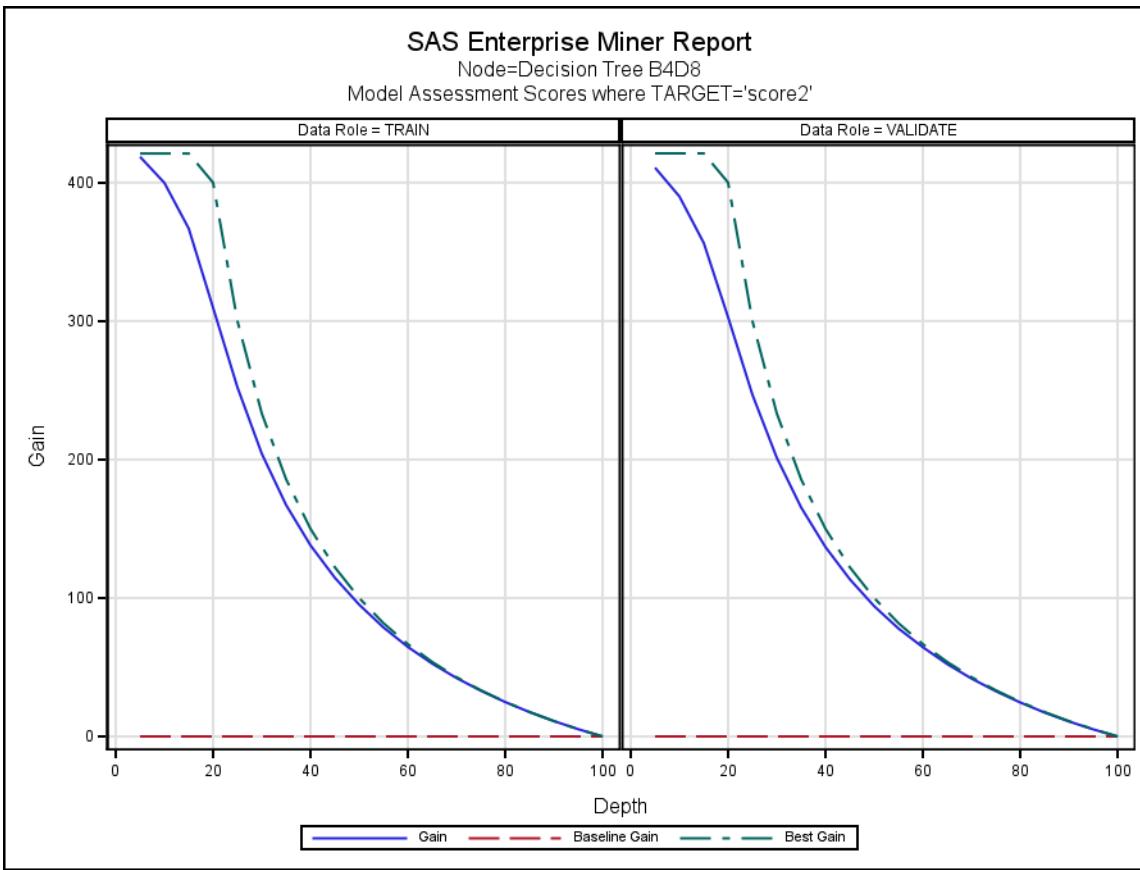


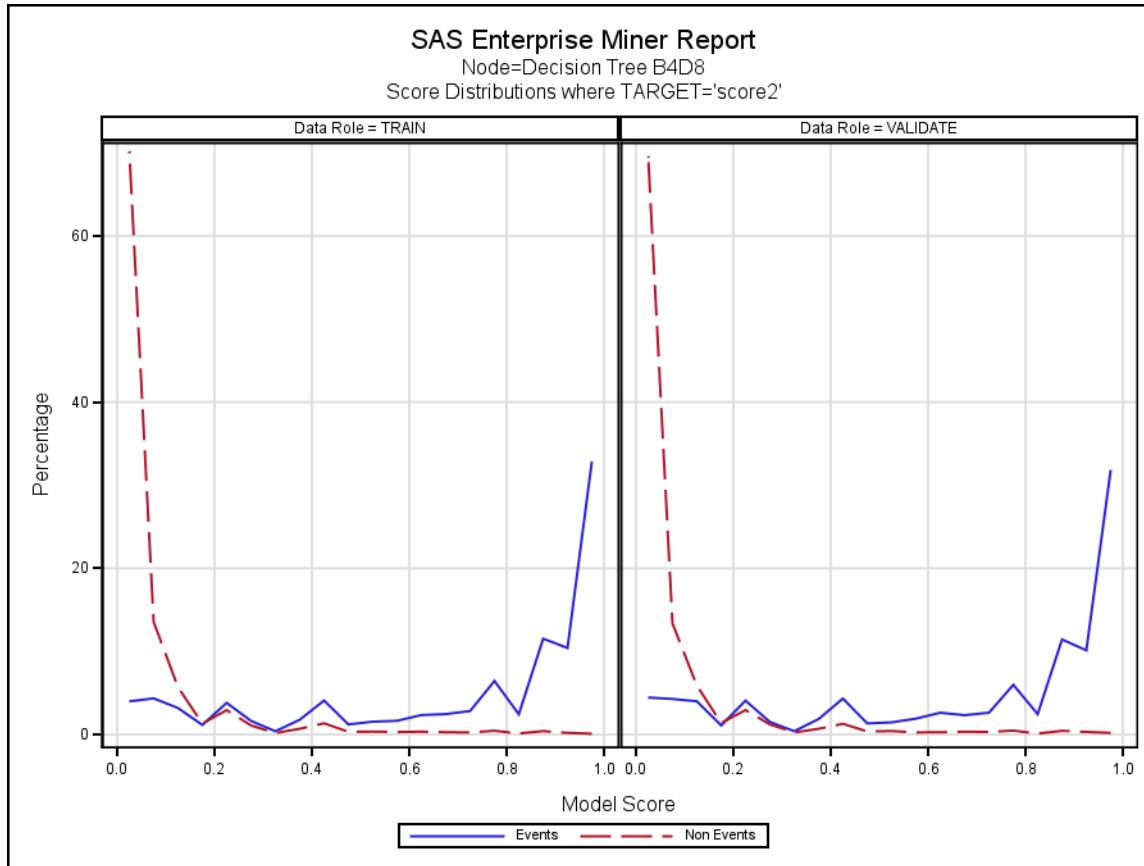
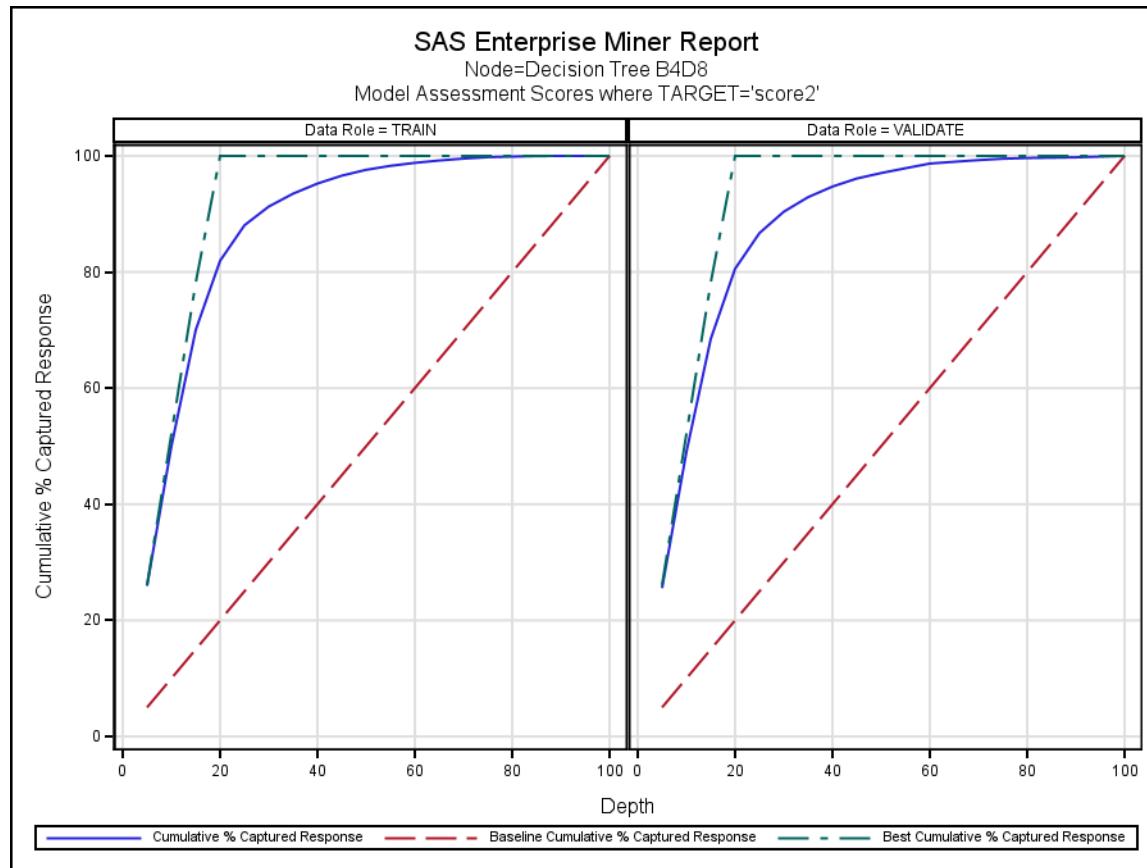
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Treemap



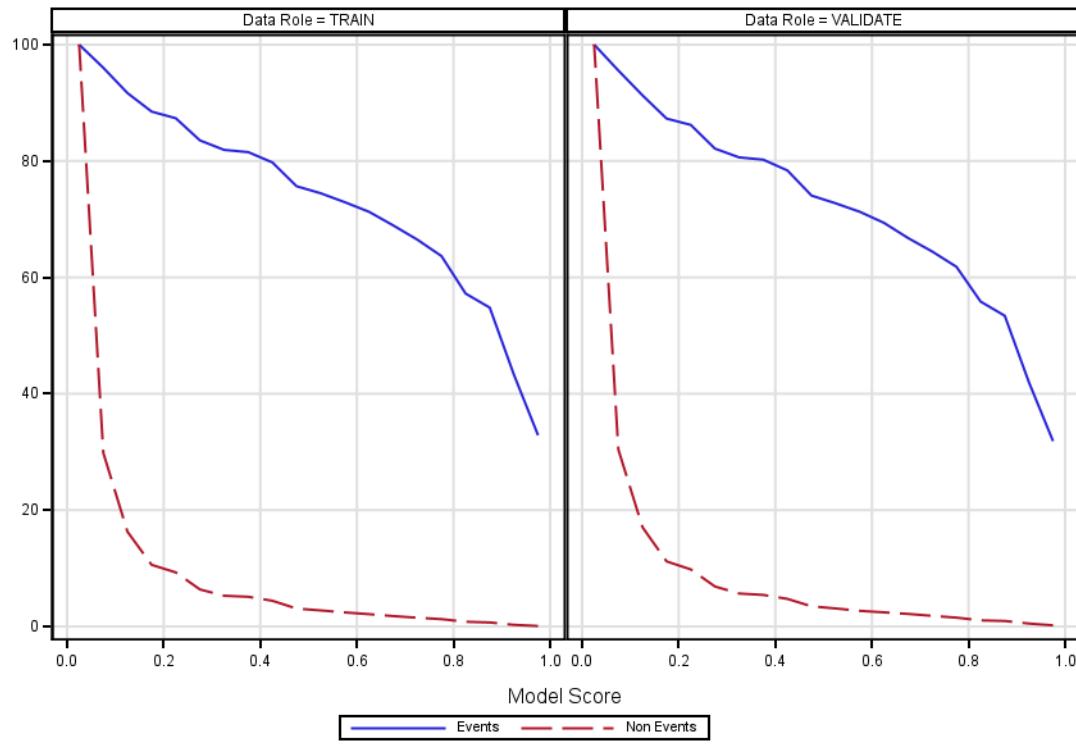
SAS Enterprise Miner Report
Node=Decision Tree B4D8
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Decision Tree B4D8
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D8
Score Distributions

Target Variable=score2 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	3994	32.8589	0.0840	32.859	0.084
0.90-0.95	1265	10.4072	0.1974	43.266	0.281
0.85-0.90	1401	11.5261	0.4084	54.792	0.690
0.80-0.85	295	2.4270	0.1212	57.219	0.811
0.75-0.80	783	6.4418	0.4475	63.661	1.258
0.70-0.75	343	2.8219	0.2462	66.483	1.505
0.65-0.70	298	2.4517	0.2794	68.935	1.784
0.60-0.65	284	2.3365	0.3302	71.271	2.114
0.55-0.60	200	1.6454	0.2990	72.916	2.413
0.50-0.55	187	1.5385	0.3439	74.455	2.757
0.45-0.50	147	1.2094	0.3205	75.664	3.078
0.40-0.45	497	4.0889	1.3405	79.753	4.418
0.35-0.40	215	1.7688	0.6839	81.522	5.102
0.30-0.35	47	0.3867	0.1798	81.909	5.282
0.25-0.30	198	1.6290	1.0806	83.538	6.362
0.20-0.25	463	3.8091	2.9272	87.347	9.290
0.15-0.20	139	1.1436	1.3053	88.490	10.595
0.10-0.15	387	3.1839	5.6882	91.674	16.283
0.05-0.10	528	4.3439	13.5513	96.018	29.834
0.00-0.05	484	3.9819	70.1657	100.000	100.000

Target Variable=score2 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	1290	31.8440	0.1934	31.844	0.193
0.90-0.95	410	10.1210	0.3107	41.965	0.504
0.85-0.90	463	11.4293	0.4397	53.394	0.944
0.80-0.85	99	2.4438	0.1055	55.838	1.049
0.75-0.80	242	5.9738	0.4690	61.812	1.518
0.70-0.75	106	2.6166	0.3048	64.429	1.823
0.65-0.70	94	2.3204	0.3341	66.749	2.157
0.60-0.65	106	2.6166	0.2697	69.366	2.427
0.55-0.60	77	1.9008	0.2579	71.266	2.685
0.50-0.55	59	1.4564	0.4103	72.723	3.095
0.45-0.50	54	1.3330	0.3634	74.056	3.459
0.40-0.45	175	4.3199	1.2838	78.376	4.742
0.35-0.40	75	1.8514	0.6800	80.227	5.422
0.30-0.35	16	0.3950	0.2403	80.622	5.663
0.25-0.30	61	1.5058	1.2076	82.128	6.870
0.20-0.25	165	4.0731	2.9369	86.201	9.807
0.15-0.20	44	1.0862	1.3717	87.287	11.179
0.10-0.15	162	3.9990	5.8855	91.286	17.064
0.05-0.10	173	4.2706	13.3537	95.557	30.418
0.00-0.05	180	4.4433	69.5820	100.000	100.000

SAS Enterprise Miner Report

Node=Decision Tree B4D12 Summary

Node id = Tree43
 Node label = Decision Tree B4D12
 Meta path = Ids => Part => Tree43
 Notes =

Node=Decision Tree B4D12 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	4	2	SampleMethod	RANDOM	
CVNIter	10		Maxdepth	12	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 B4D12 Variable Summary

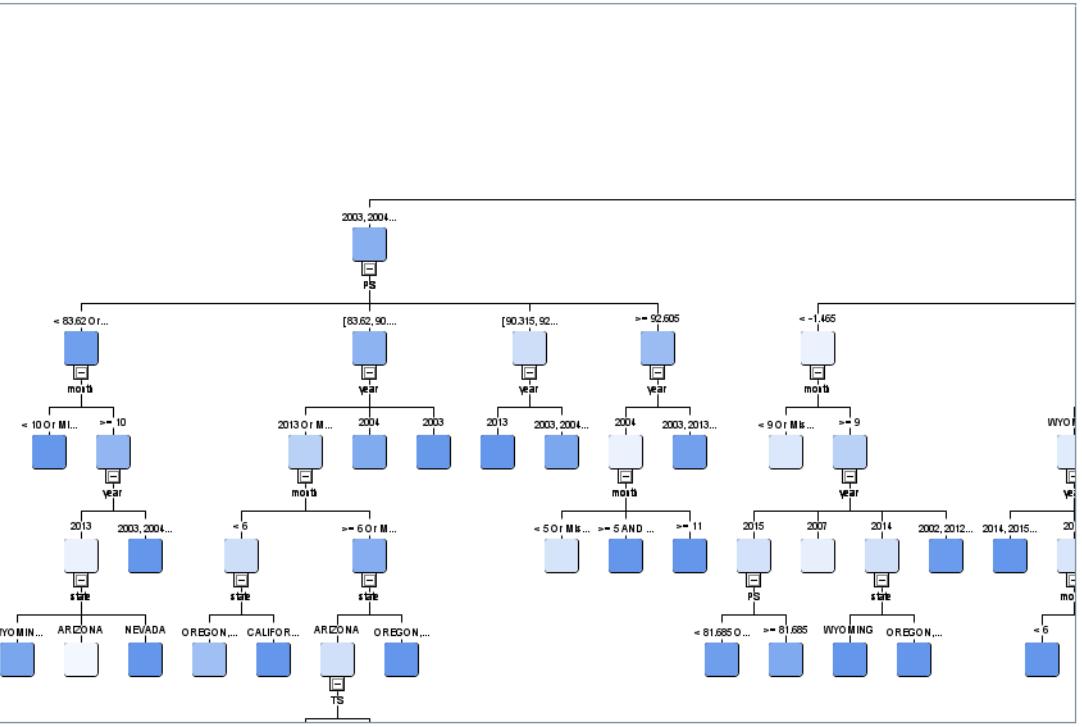
Role	Level	Frequency Count	Name
TIMEID	INTERVAL	1	date
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month
ID	INTERVAL	1	_dataobs_

Node=Decision Tree B4D12 Model Fit Statistics

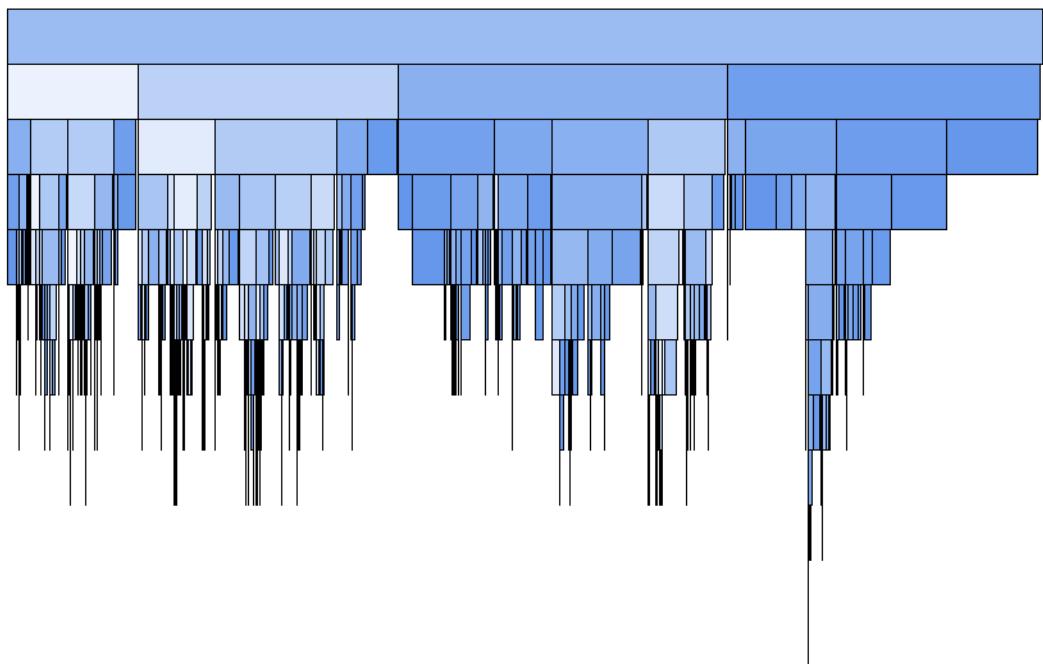
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Sum of Frequencies	63331.00	21110.00	21112.00
Misclassification Rate	0.07	0.08	0.08
Maximum Absolute Error	1.00	1.00	1.00
Sum of Squared Errors	6840.13	2478.29	2607.24
Average Squared Error	0.05	0.06	0.06
Root Average Squared Error	0.23	0.24	0.25
Divisor for ASE	126662.00	42220.00	42224.00
Total Degrees of Freedom	63331.00	.	.

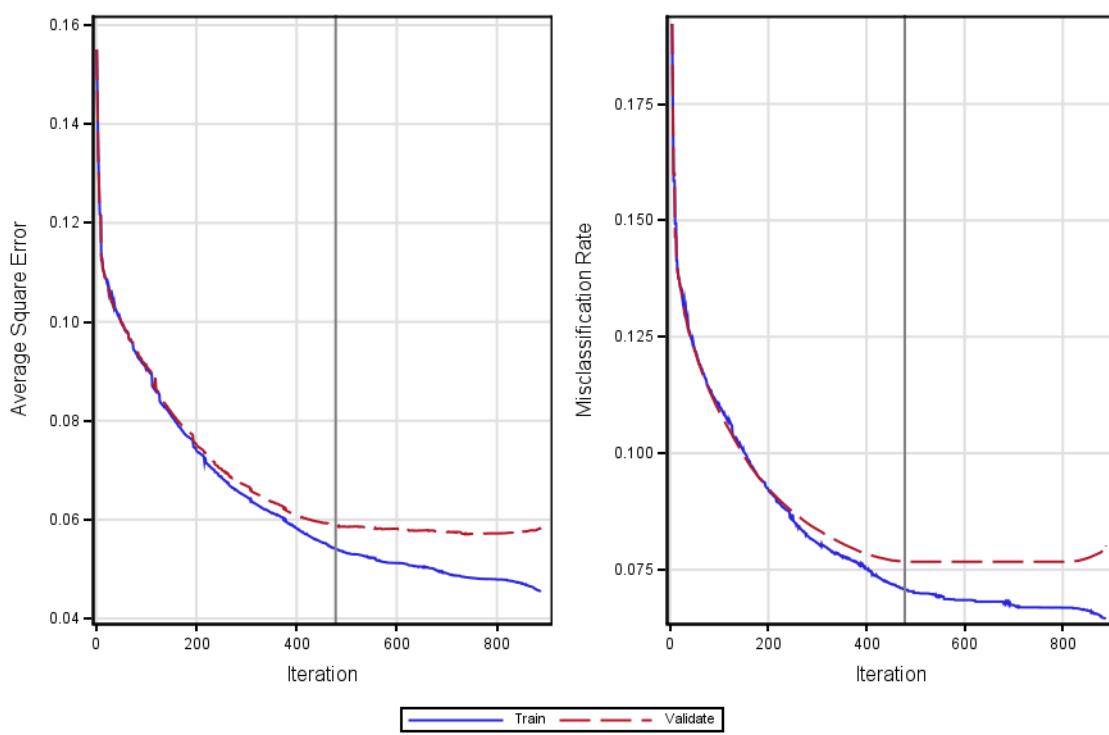
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Tree Diagram



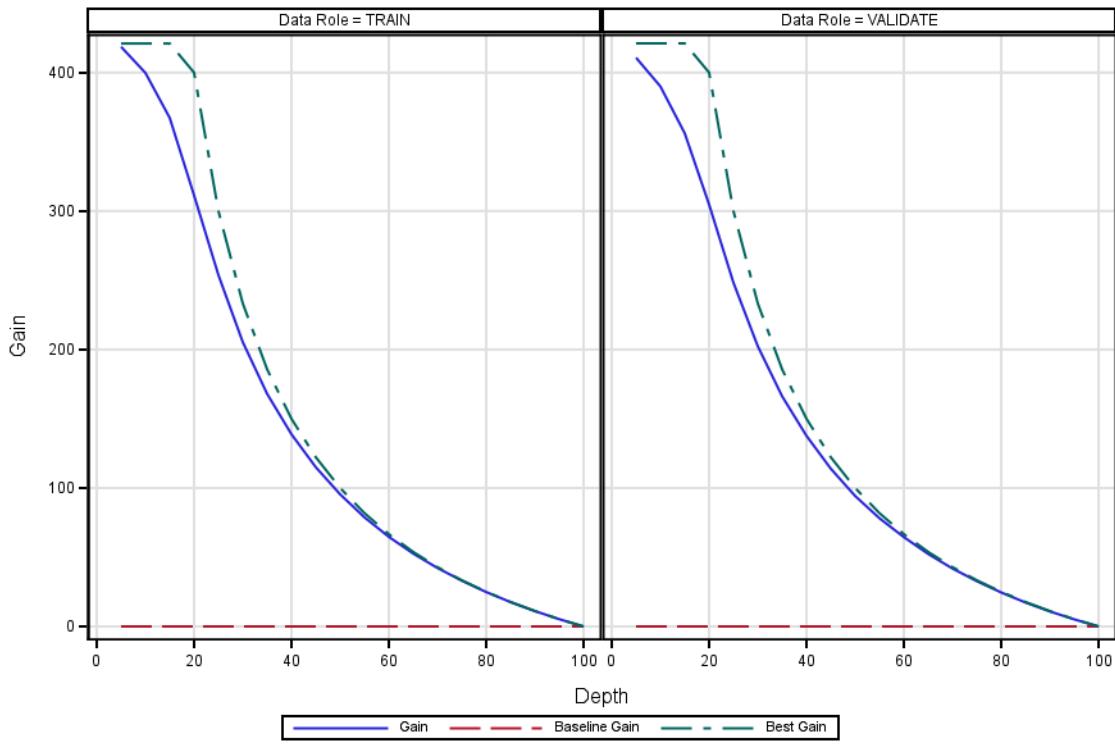
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Treemap



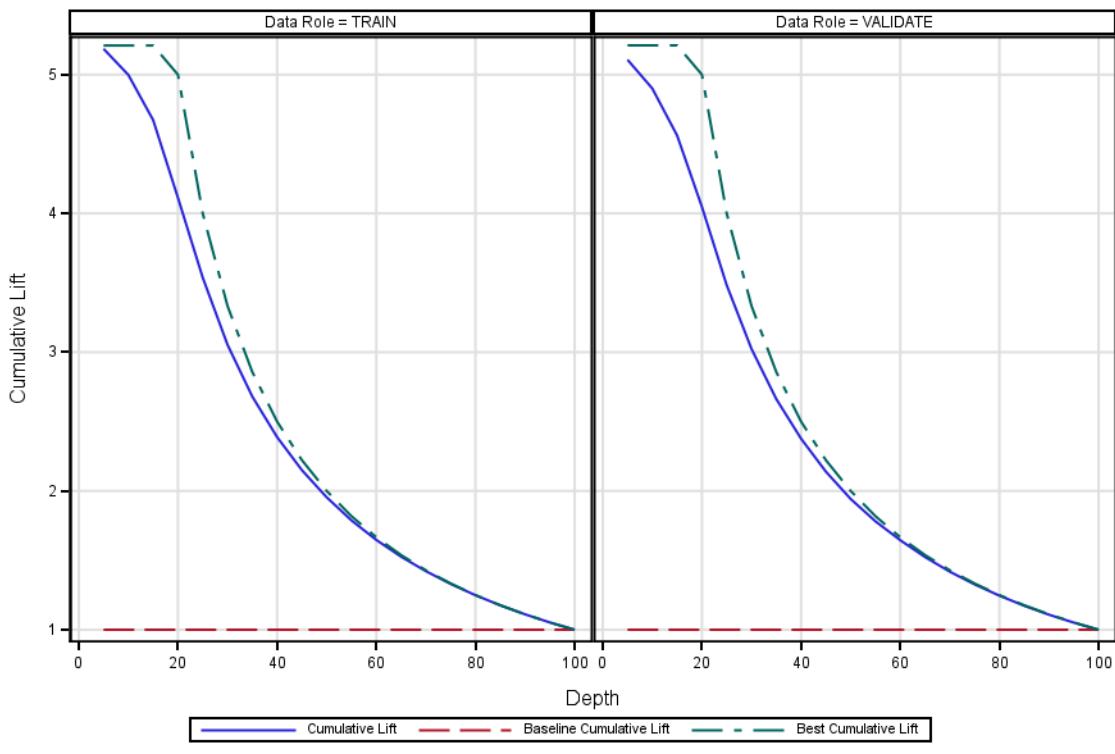
SAS Enterprise Miner Report
Node=Decision Tree B4D12
Model Iteration Plots



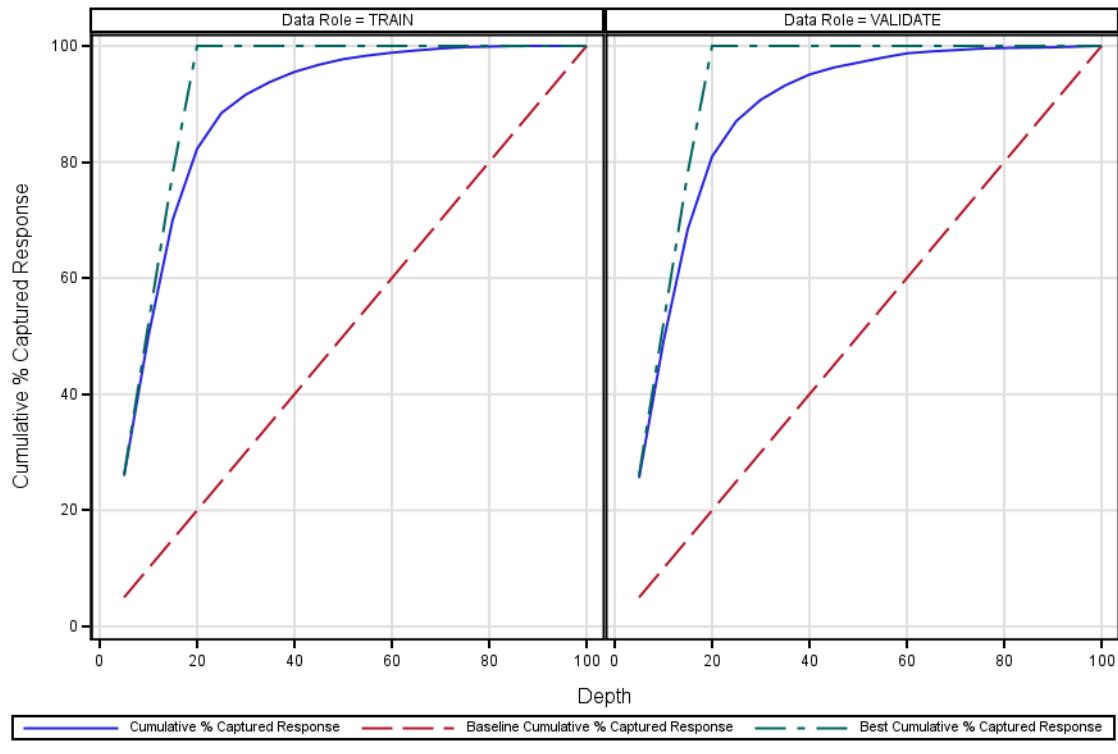
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



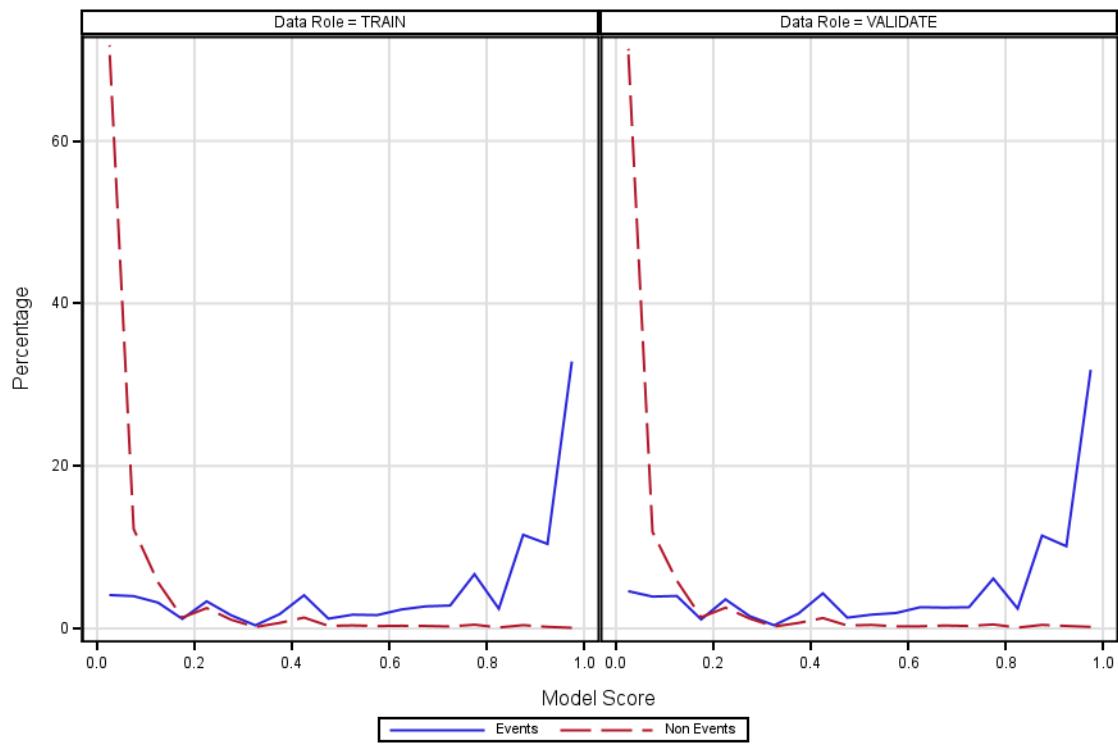
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



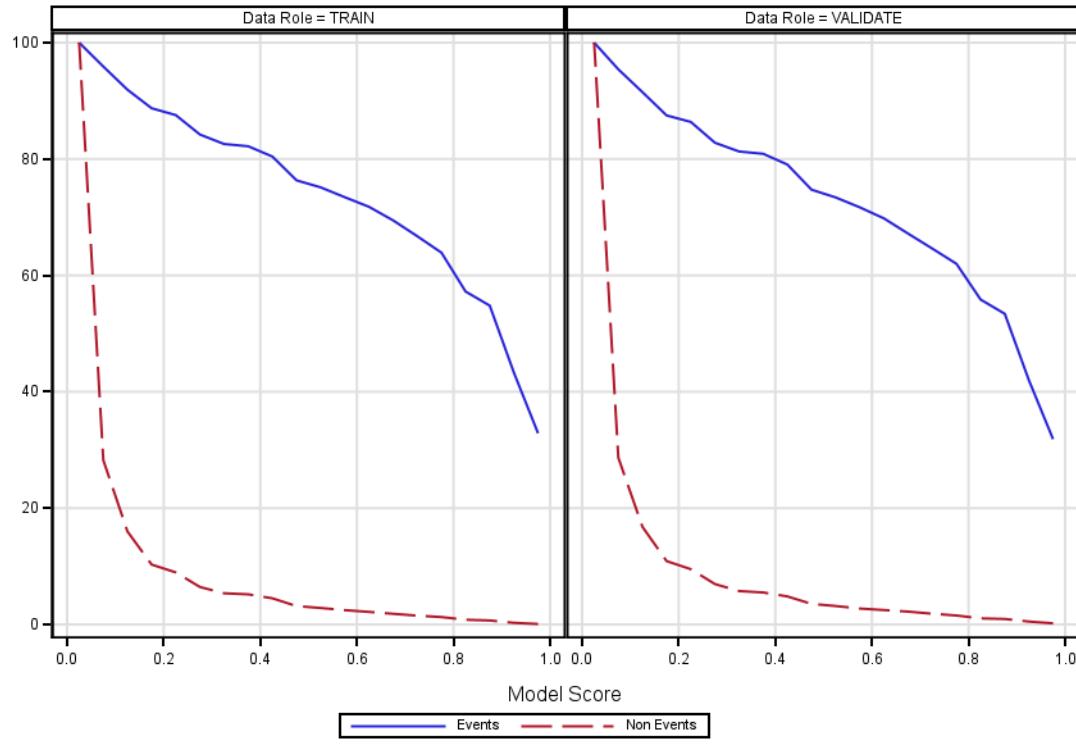
SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Decision Tree B4D12
 Score Distributions where TARGET='score2'



Node=Decision Tree B4D12

Score Distributions

Target Variable=score2 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	3994	32.8589	0.0840	32.859	0.084
0.90-0.95	1265	10.4072	0.1974	43.266	0.281
0.85-0.90	1401	11.5261	0.4084	54.792	0.690
0.80-0.85	295	2.4270	0.1212	57.219	0.811
0.75-0.80	812	6.6804	0.4631	63.900	1.274
0.70-0.75	343	2.8219	0.2462	66.722	1.520
0.65-0.70	331	2.7232	0.3107	69.445	1.831
0.60-0.65	284	2.3365	0.3302	71.781	2.161
0.55-0.60	200	1.6454	0.2990	73.427	2.460
0.50-0.55	206	1.6948	0.3752	75.121	2.835
0.45-0.50	147	1.2094	0.3205	76.331	3.156
0.40-0.45	497	4.0889	1.3405	80.420	4.496
0.35-0.40	215	1.7688	0.6839	82.188	5.180
0.30-0.35	47	0.3867	0.1798	82.575	5.360
0.25-0.30	198	1.6290	1.0806	84.204	6.441
0.20-0.25	406	3.3402	2.5090	87.544	8.950
0.15-0.20	143	1.1765	1.3444	88.721	10.294
0.10-0.15	387	3.1839	5.6882	91.905	15.982
0.05-0.10	484	3.9819	12.2479	95.886	28.230
0.00-0.05	500	4.1135	71.7700	100.000	100.000

Target Variable=score2 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	1290	31.8440	0.1934	31.844	0.193
0.90-0.95	410	10.1210	0.3107	41.965	0.504
0.85-0.90	463	11.4293	0.4397	53.394	0.944
0.80-0.85	99	2.4438	0.1055	55.838	1.049
0.75-0.80	249	6.1466	0.4924	61.985	1.542
0.70-0.75	106	2.6166	0.3048	64.601	1.847
0.65-0.70	104	2.5673	0.3634	67.169	2.210
0.60-0.65	106	2.6166	0.2697	69.785	2.480
0.55-0.60	77	1.9008	0.2579	71.686	2.738
0.50-0.55	69	1.7033	0.4338	73.389	3.171
0.45-0.50	54	1.3330	0.3634	74.722	3.535
0.40-0.45	175	4.3199	1.2838	79.042	4.819
0.35-0.40	75	1.8514	0.6800	80.894	5.499
0.30-0.35	16	0.3950	0.2403	81.289	5.739
0.25-0.30	61	1.5058	1.2076	82.794	6.946
0.20-0.25	145	3.5794	2.5558	86.374	9.502
0.15-0.20	45	1.1108	1.3834	87.485	10.886
0.10-0.15	162	3.9990	5.8855	91.484	16.771
0.05-0.10	159	3.9250	11.8940	95.409	28.665
0.00-0.05	186	4.5915	71.3348	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Stepwise Summary

Node id = Reg11
 Node label = Regression Stepwise
 Meta path = Ids => Part => Reg11
 Notes =

Node=Regression Stepwise 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		SIEntry	0.05	
CIParam	N		MaxCPUTime	1 HOUR		SIStay	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		Start	0	
CorB	N		MaxIterations	.		StepOutput	N	
CovB	N		MaxStep	.		Stop	0	
Covout	N		MinResourceUse	N		SuppressIntercept	N	
Details	N		ModelDefaults	Y		SuppressOutput	N	
Error	LOGISTIC		ModelSelection	STEPWISE	NONE	Terms	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		TwoFactor	N	
FConvTimes	1		Performance	N				
FConvValue	0		Polynomial	N				

Node=Regression Stepwise Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Stepwise Model Fit Statistics

Target=score2 Target Label=score2

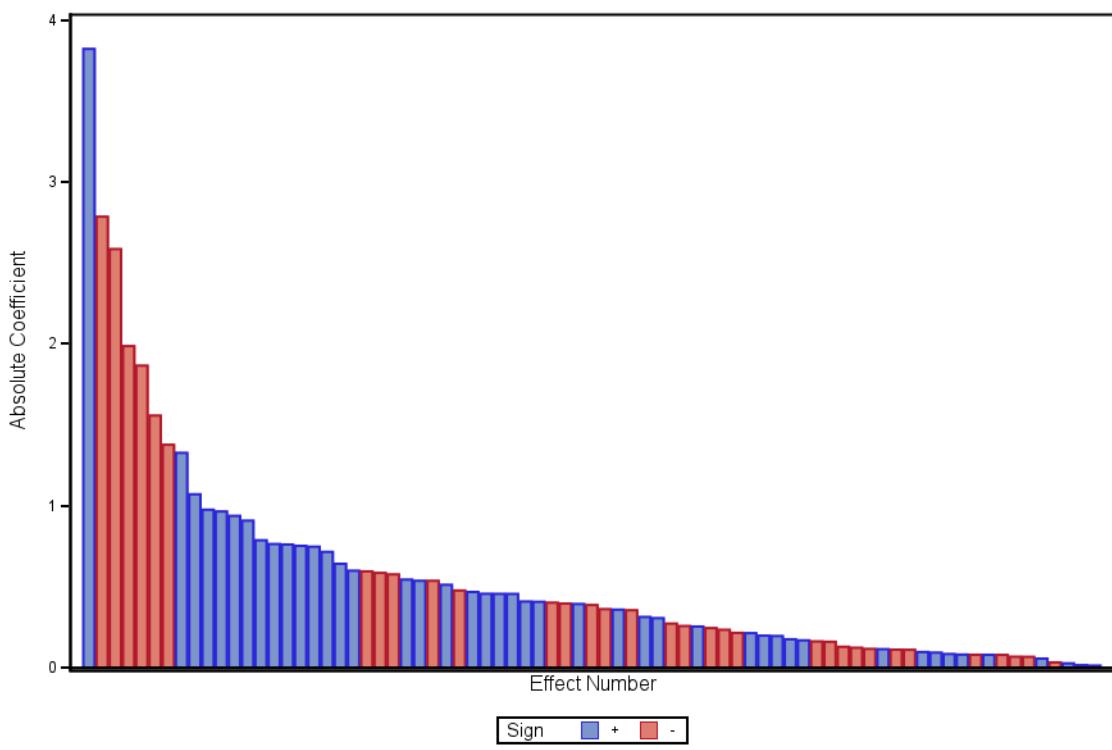
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47573.72	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.37	0.37	0.38
Degrees of Freedom for Error	63254.00	.	.
Model Degrees of Freedom	77.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47419.72	15788.36	15958.64
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	77.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48271.05	.	.
Sum of Squared Errors	14649.21	4897.27	4925.83
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Stepwise
Regression Model Effects



Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.82335	7.1935	6.3163E-13	40	state	KENTUCKY	-0.36202	-3.4642	0.00053
2	state	PENNSYLVANIA	-2.78670	-8.9897	2.4794E-19	41	state	KANSAS	0.35890	5.2198	0.00000
3	state	NEW_YORK	-2.58661	-8.2938	1.0972E-16	42	month	5	-0.35548	-8.3464	0.00000
4	state	WEST_VIRGINIA	-1.98732	-10.5865	3.4416E-26	43	state	ARIZONA	0.31371	3.5834	0.00034
5	state	OHIO	-1.86666	-8.9093	5.1371E-19	44	month	2	0.30654	6.1983	0.00000
6	year	2009	-1.55794	-20.7086	2.8949E-95	45	year	2001	-0.27266	-5.5291	0.00000
7	year	2010	-1.37748	-19.5147	8.2378E-85	46	state	ILLINOIS	-0.25779	-2.3177	0.02047
8	state	GEORGIA	1.32756	17.7767	1.0714E-70	47	month	11	0.25442	5.8243	0.00000
9	state	OREGON	1.07158	14.6646	1.0859E-48	48	T2M		-0.24515	-9.5625	0.00000

SAS Enterprise Miner Report
Node=Regression Stepwise
Regression Model Effects

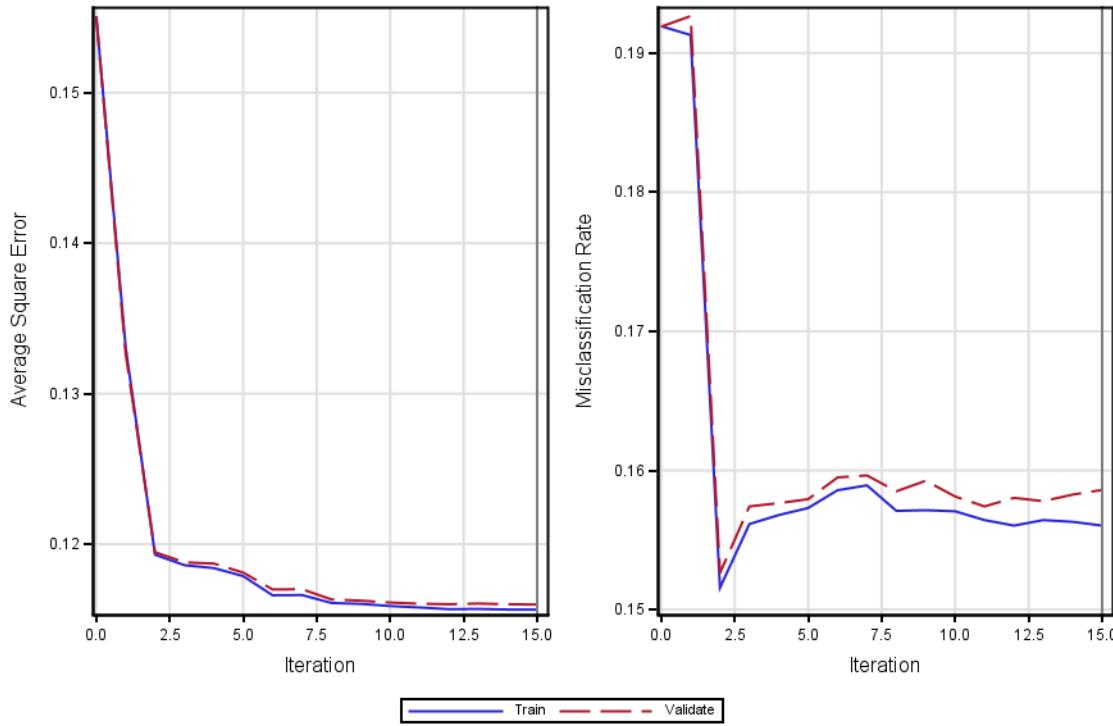
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.97626	15.9024	6.1028E-57	49	month	8	-0.23440	-4.6216	0.00000
11	year	2002	0.96549	24.0203	1.708E-127	50	year	2000	-0.21522	-4.4962	0.00001
12	year	2012	0.93834	23.4480	1.386E-121	51	state	TENNESSEE	0.21369	2.3254	0.02005
13	year	2003	0.90866	22.3941	4.496E-111	52	year	2014	0.19805	4.3674	0.00001
14	state	CALIFORNIA	0.78759	11.2815	1.6189E-29	53	state	MISSISSIPPI	0.19592	2.0670	0.03873
15	state	SOUTH_DAKOTA	0.76424	12.0164	2.9144E-33	54	month	10	0.17593	4.7491	0.00000
16	state	OKLAHOMA	0.76124	11.6478	2.3539E-31	55	TS		0.16904	13.0248	0.00000
17	year	2013	0.75314	18.3562	2.9448E-75	56	state	NEW_MEXICO	-0.16270	-1.7262	0.08432
18	state	LOUISIANA	0.74764	8.7733	1.7349E-18	57	state	COLORADO	-0.16039	-1.7470	0.08063
19	year	2004	0.71556	17.1436	7.0176E-66	58	year	2005	-0.12925	-2.6957	0.00702
20	state	SOUTH_CAROLINA	0.64209	7.4052	1.309E-13	59	year	2006	-0.12355	-2.6146	0.00893
21	year	2007	0.59947	14.3280	1.4633E-46	60	state	MAINE	-0.11632	-1.0407	0.29802
22	state	VIRGINIA	-0.59527	-5.4065	.000000064	61	year	2011	0.11473	2.5305	0.01139
23	state	NORTH_DAKOTA	-0.58593	-5.8576	.000000005	62	month	4	-0.11147	-2.7811	0.00542
24	state	MISSOURI	-0.57673	-5.0466	.000000450	63	month	9	-0.11083	-2.6074	0.00912
25	state	ARKANSAS	0.54462	6.3821	1.7473E-10	64	month	3	0.09704	2.2841	0.02237
26	state	MINNESOTA	0.53714	6.5621	5.3046E-11	65	state	WISCONSIN	0.09334	0.9694	0.33235
27	state	INDIANA	-0.53697	-4.4529	.000008470	66	T2M_MAX		0.08478	7.9651	0.00000
28	state	ALABAMA	0.51239	5.7707	.000000008	67	T2M_MIN		0.08126	7.5857	0.00000
29	month	6	-0.47717	-9.4443	3.5765E-21	68	T2MDEW		-0.08002	-22.7988	0.00000
30	state	MONTANA	0.46798	5.9633	.000000002	69	WS10M_MAX		0.07957	4.7022	0.00000
31	state	NEVADA	0.45680	5.0796	.000000378	70	state	TEXAS	-0.07936	-1.0935	0.27416
32	state	FLORIDA	0.45630	4.1837	.000028680	71	PS		-0.06810	-12.0720	0.00000
33	state	IDAHO	0.45593	5.1751	.000000228	72	WS50M_MAX		-0.06735	-4.5693	0.00000
34	state	NORTH_CAROLINA	0.40911	4.4042	.000010617	73	state	WASHINGTON	0.05644	0.7067	0.47973
35	month	1	0.40730	7.8859	3.1227E-15	74	WS50M		-0.03288	-2.3582	0.01836
36	state	MICHIGAN	-0.40207	-3.3882	.000703609	75	state	UTAH	0.02710	0.3137	0.75378
37	month	7	-0.39621	-7.3664	1.7534E-13	76	year	2015	0.01609	0.3428	0.73175
38	state	IOWA	0.39366	4.9681	.000000676	77	PRECTOT		0.01326	4.9377	0.00000
39	year	2008	-0.38761	-7.6745	1.6605E-14

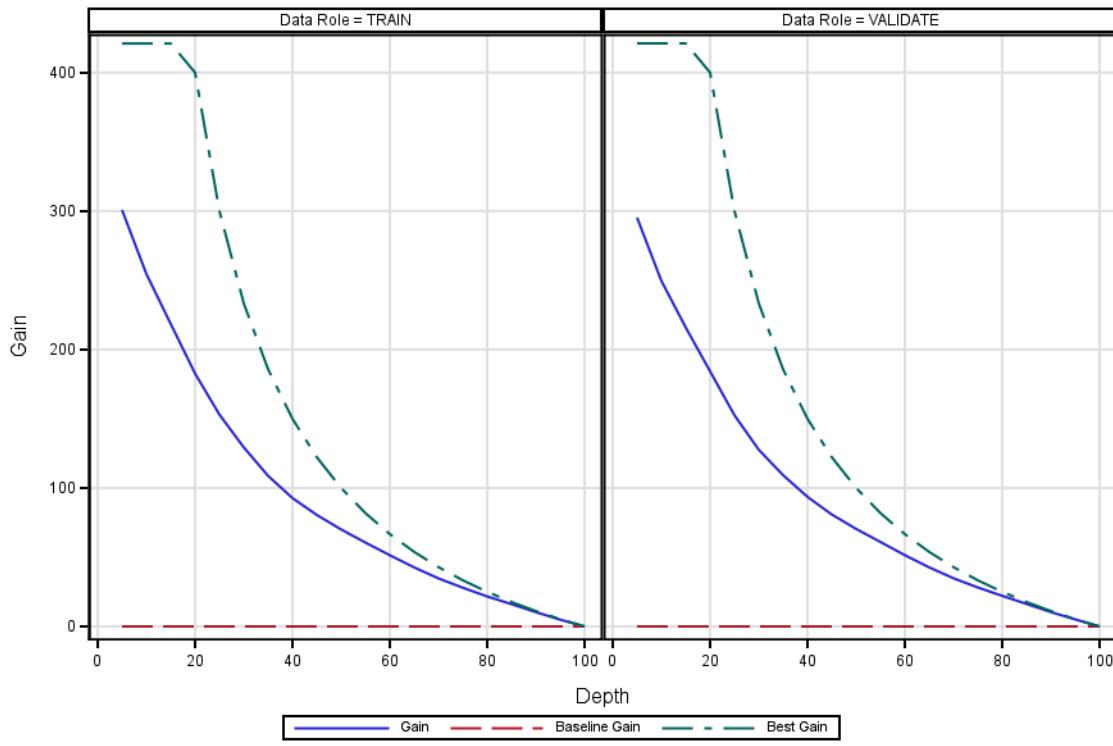
SAS Enterprise Miner Report
Node=Regression Stepwise
Model Iteration Plots

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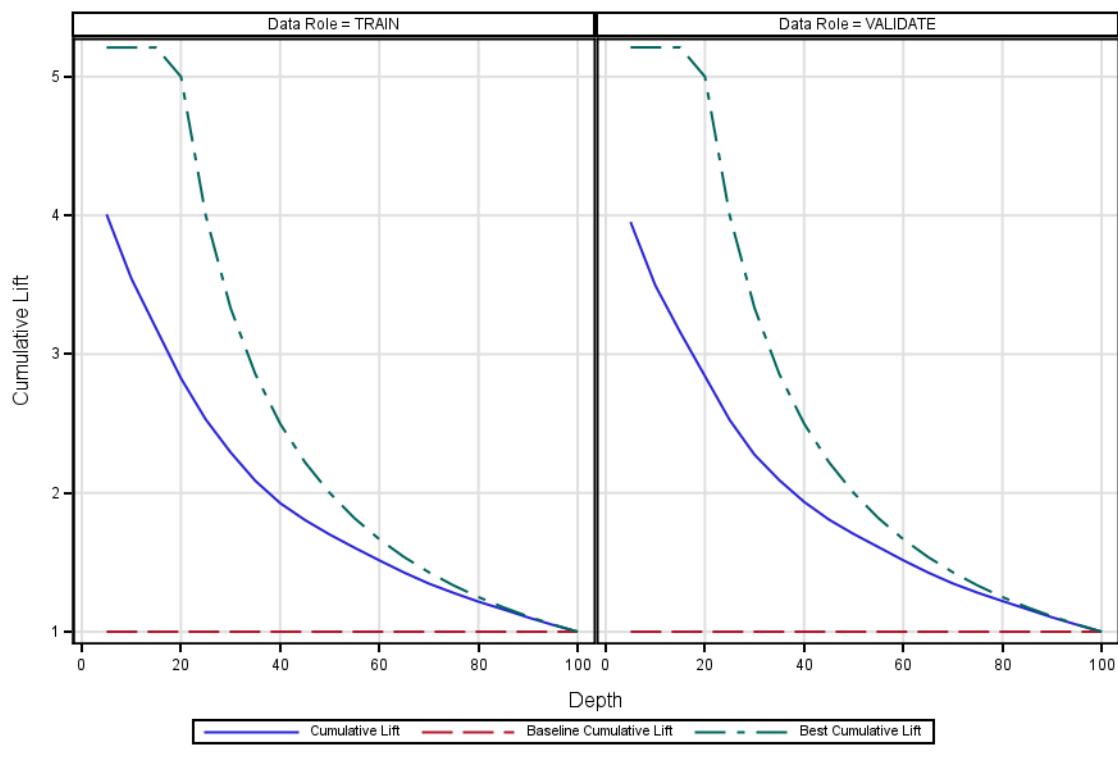
SAS Enterprise Miner Report
Node=Regression Stepwise
Model Iteration Plots



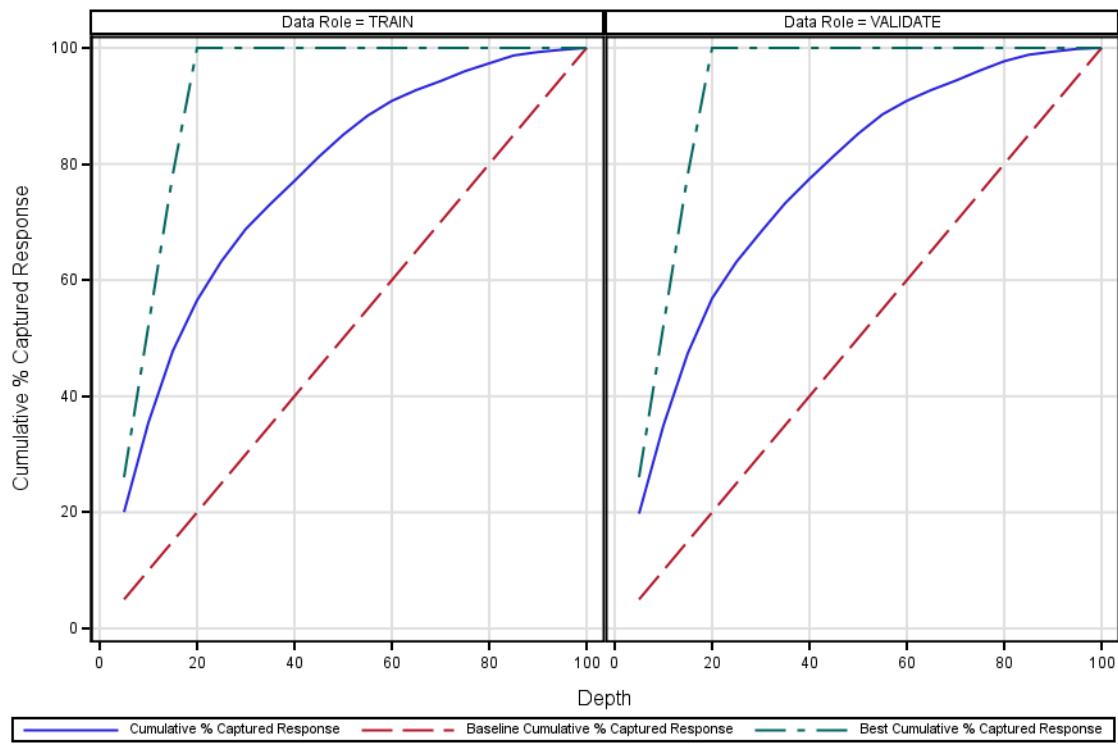
SAS Enterprise Miner Report
Node=Regression Stepwise
Model Assessment Scores where TARGET='score2'



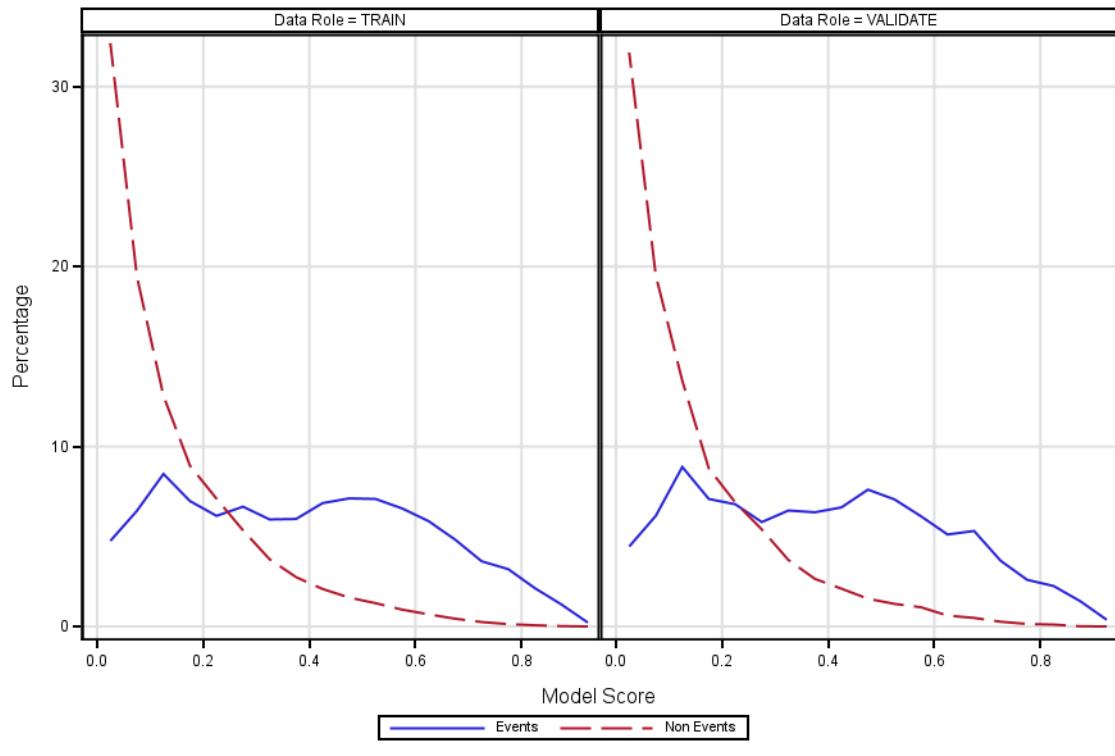
SAS Enterprise Miner Report
 Node=Regression Stepwise
 Model Assessment Scores where TARGET='score2'



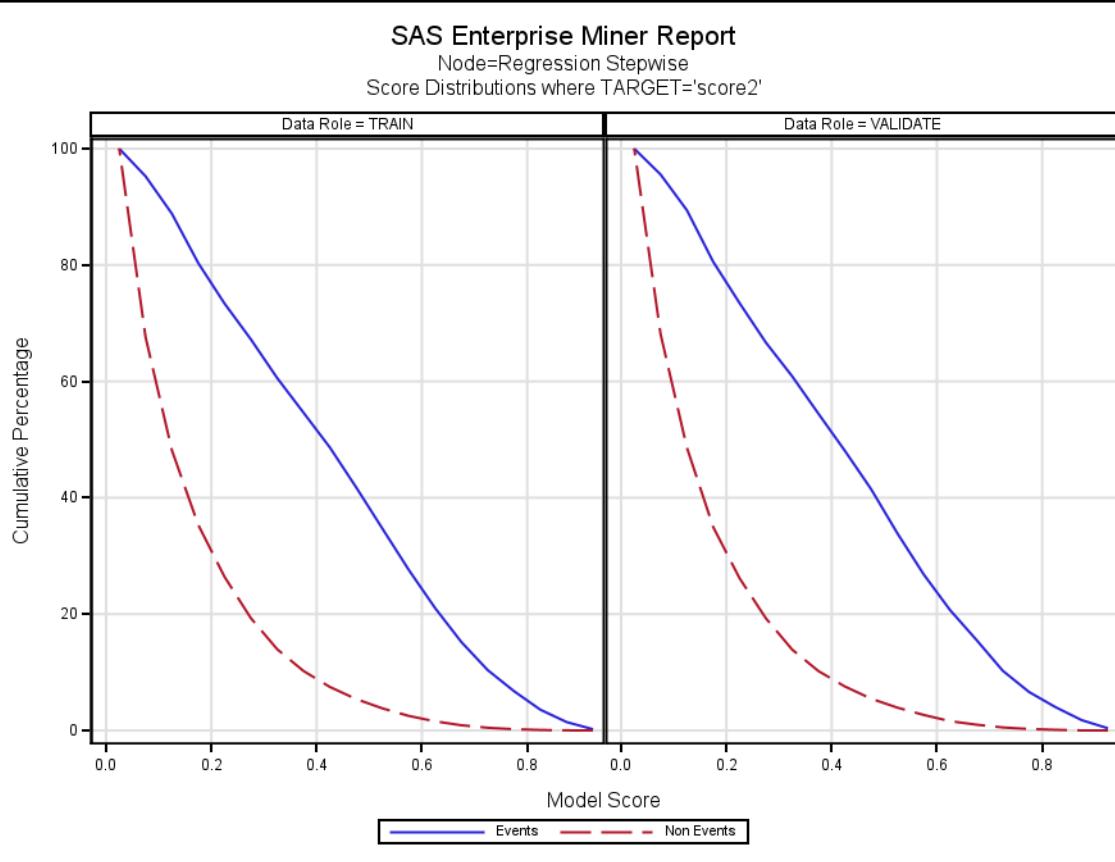
SAS Enterprise Miner Report
 Node=Regression Stepwise
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Stepwise
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Stepwise
 Score Distributions where TARGET='score2'



**Node=Regression Stepwise
 Score Distributions**

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	149	1.22583	0.0215	1.440	0.021
0.80-0.85	259	2.13081	0.0684	3.571	0.090
0.75-0.80	387	3.18387	0.1309	6.754	0.221
0.70-0.75	440	3.61991	0.2462	10.374	0.467
0.65-0.70	586	4.82106	0.4299	15.195	0.897
0.60-0.65	711	5.84944	0.6722	21.045	1.569
0.55-0.60	797	6.55697	0.9340	27.602	2.503
0.50-0.55	861	7.08350	1.2936	34.685	3.797
0.45-0.50	865	7.11641	1.6062	41.802	5.403
0.40-0.45	833	6.85315	2.0830	48.655	7.486
0.35-0.40	726	5.97285	2.7415	54.628	10.227
0.30-0.35	723	5.94817	3.7381	60.576	13.966
0.25-0.30	809	6.65570	5.3423	67.232	19.308
0.20-0.25	747	6.14562	7.1029	73.377	26.411
0.15-0.20	847	6.96833	8.9339	80.346	35.345
0.10-0.15	1030	8.47388	12.8185	88.819	48.163
0.05-0.10	781	6.42534	19.4349	95.245	67.598
0.00-0.05	578	4.75524	32.4019	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	15	0.37028	0.0000	0.370	0.000
0.85-0.90	57	1.40706	0.0117	1.777	0.012
0.80-0.85	91	2.24636	0.1055	4.024	0.117
0.75-0.80	105	2.59195	0.1407	6.616	0.258
0.70-0.75	148	3.65342	0.2638	10.269	0.522
0.65-0.70	215	5.30733	0.4748	15.576	0.997
0.60-0.65	207	5.10985	0.6038	20.686	1.600
0.55-0.60	248	6.12195	1.0669	26.808	2.667
0.50-0.55	286	7.05999	1.2545	33.868	3.922
0.45-0.50	308	7.60306	1.5417	41.471	5.463
0.40-0.45	268	6.61565	2.0986	48.087	7.562
0.35-0.40	257	6.34411	2.6438	54.431	10.206
0.30-0.35	261	6.44285	3.6931	60.874	13.899
0.25-0.30	235	5.80104	5.3872	66.675	19.286
0.20-0.25	275	6.78845	6.8879	73.463	26.174
0.15-0.20	287	7.08467	8.7813	80.548	34.955
0.10-0.15	359	8.86201	13.6585	89.410	48.614
0.05-0.10	249	6.14663	19.5088	95.557	68.122
0.00-0.05	180	4.44335	31.8776	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Backward Summary

Node id = Reg10
 Node label = Regression Backward
 Meta path = Ids => Part => Reg10
 Notes =

Node=Regression Backward 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParm	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SISStay	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	BACKWARD	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Backward Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Backward Model Fit Statistics

Target=score2 Target Label=score2

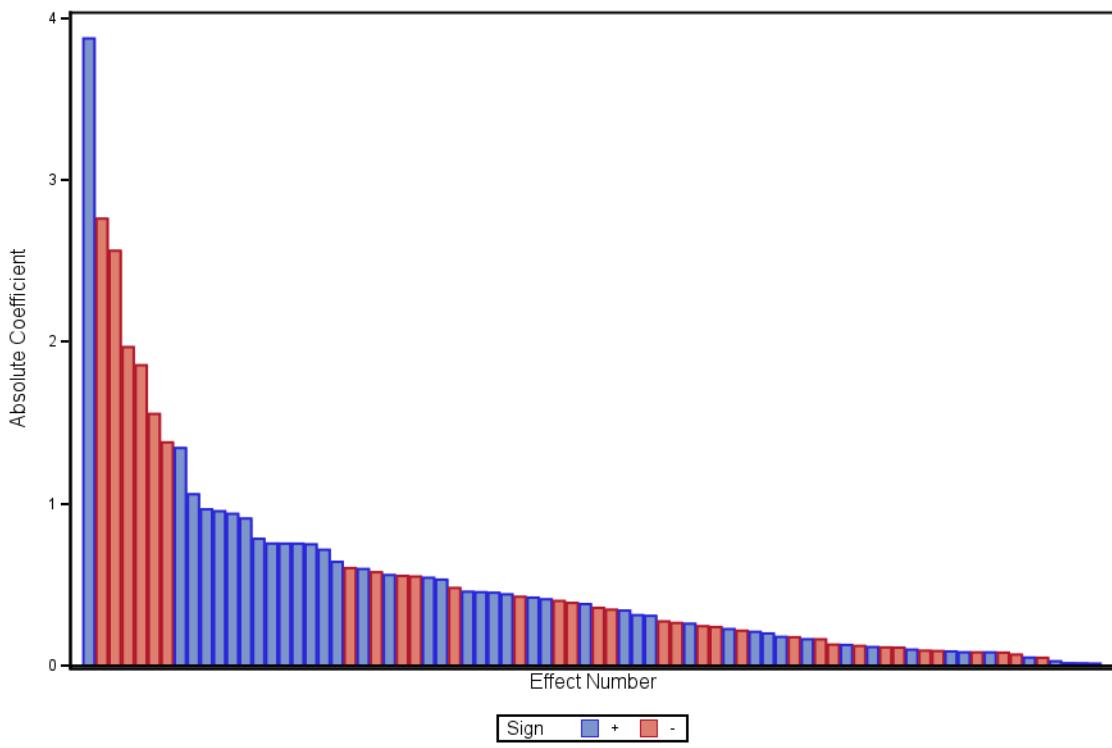
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47574.52	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.37	0.37	0.38
Degrees of Freedom for Error	63253.00	.	.
Model Degrees of Freedom	78.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47418.52	15785.87	15953.05
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	78.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48280.90	.	.
Sum of Squared Errors	14646.30	4895.69	4923.81
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Backward
Regression Model Effects



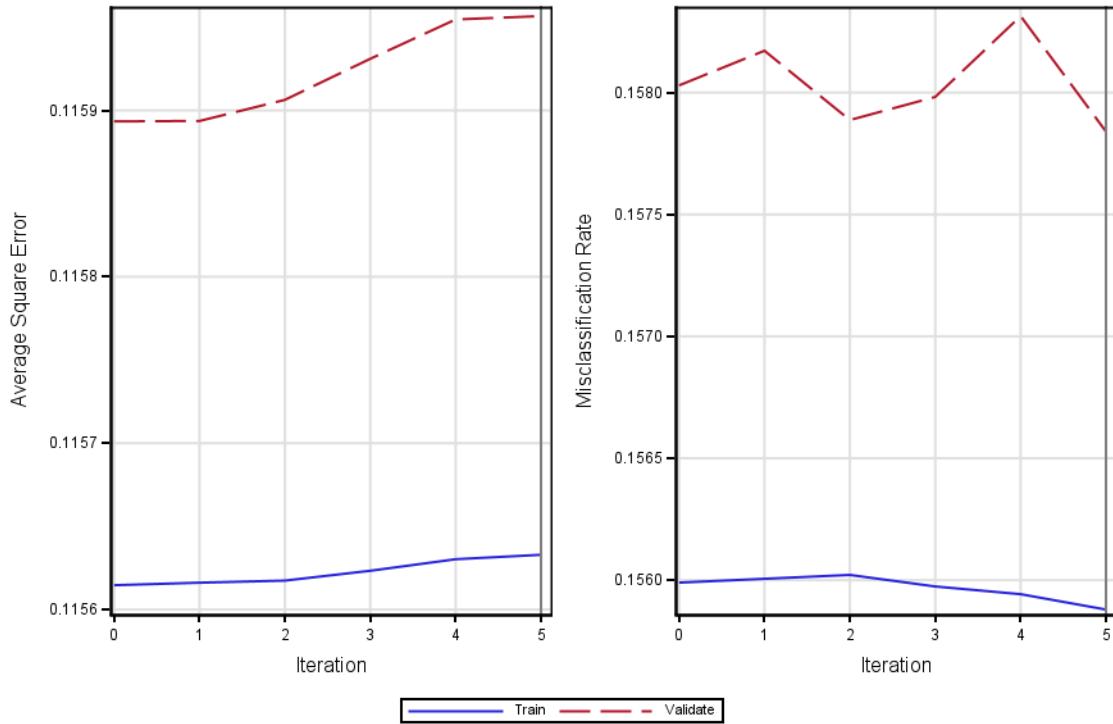
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.87560	7.2926	3.0398E-13	40	month	5	-0.35744	-8.3775	0.00000
2	state	PENNSYLVANIA	-2.76236	-8.8984	5.6671E-19	41	state	KENTUCKY	-0.34640	-3.3011	0.00096
3	state	NEW_YORK	-2.56395	-8.2112	2.189E-16	42	state	KANSAS	0.34063	4.9265	0.00000
4	state	WEST_VIRGINIA	-1.96880	-10.4618	1.2935E-25	43	state	ARIZONA	0.31250	3.5673	0.00036
5	state	OHIO	-1.85659	-8.8566	8.2499E-19	44	month	2	0.30825	6.2280	0.00000
6	year	2009	-1.55580	-20.6834	4.8839E-95	45	year	2001	-0.27383	-5.5524	0.00000
7	year	2010	-1.37993	-19.5523	3.9453E-85	46	state	ILLINOIS	-0.26426	-2.3748	0.01756
8	state	GEORGIA	1.34540	17.9746	3.083E-72	47	month	11	0.25955	5.9177	0.00000
9	state	OREGON	1.05957	14.4627	2.0837E-47	48	T2M		-0.24438	-9.4921	0.00000

SAS Enterprise Miner Report
Node=Regression Backward
Regression Model Effects

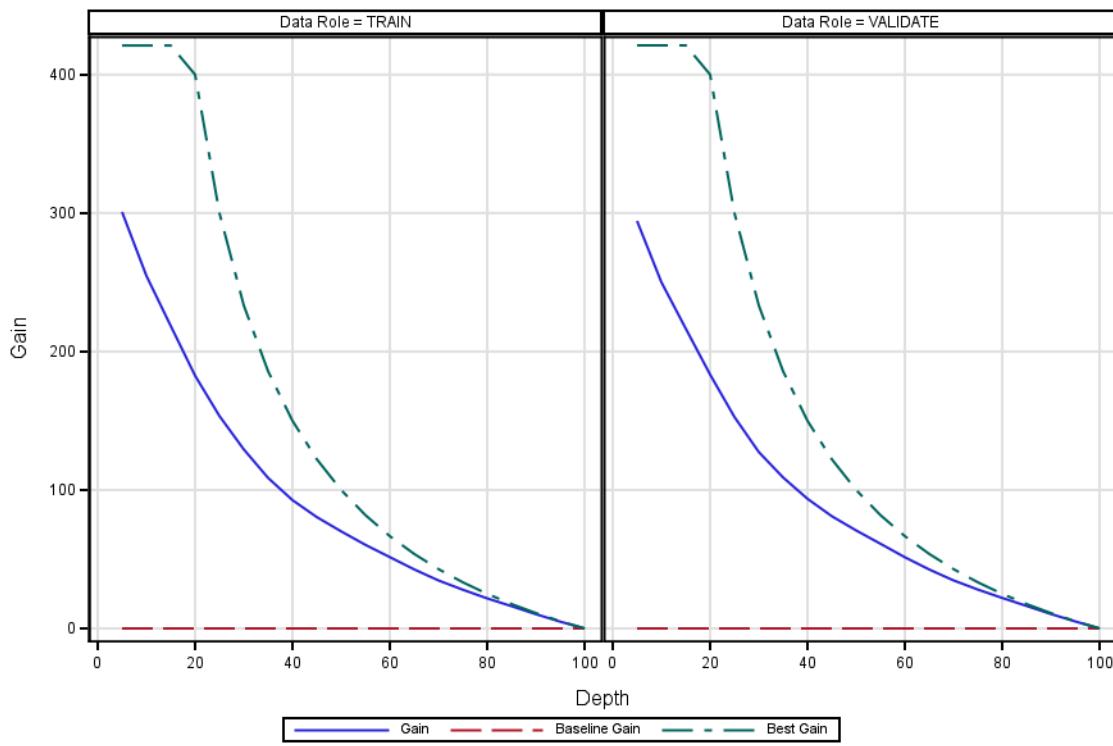
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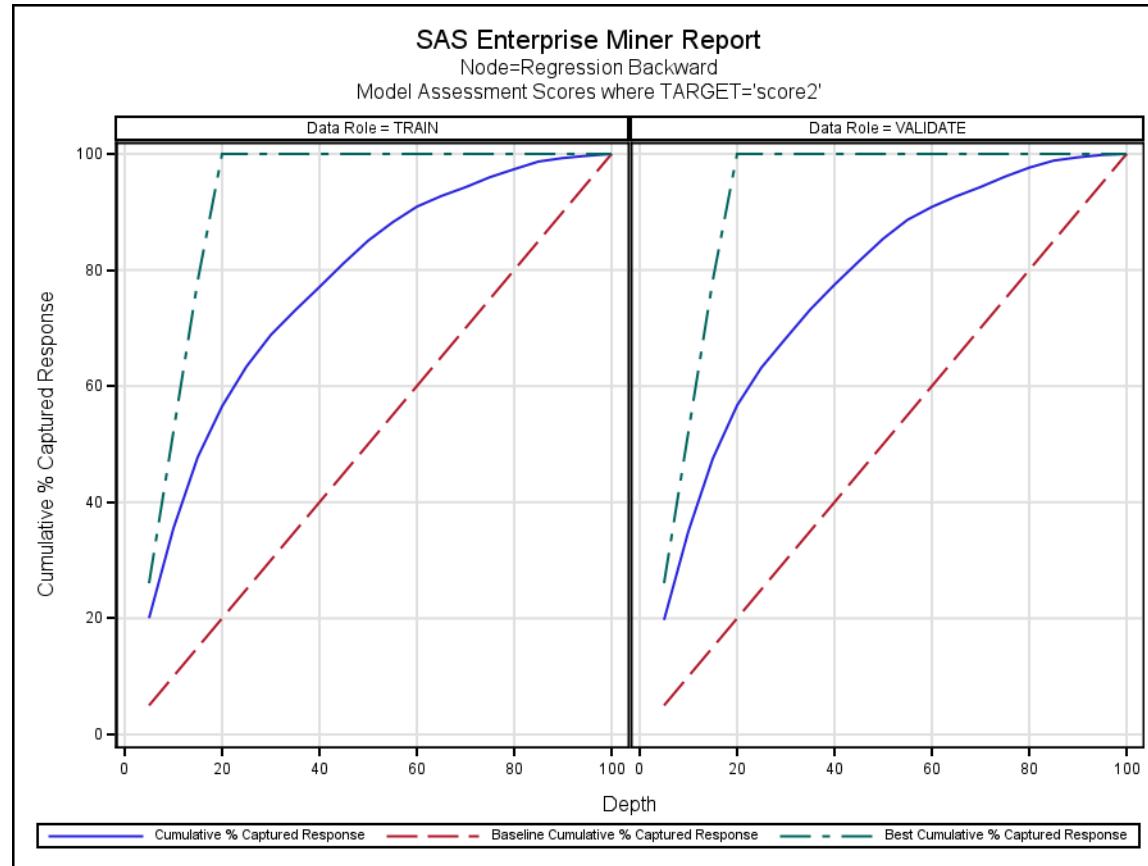
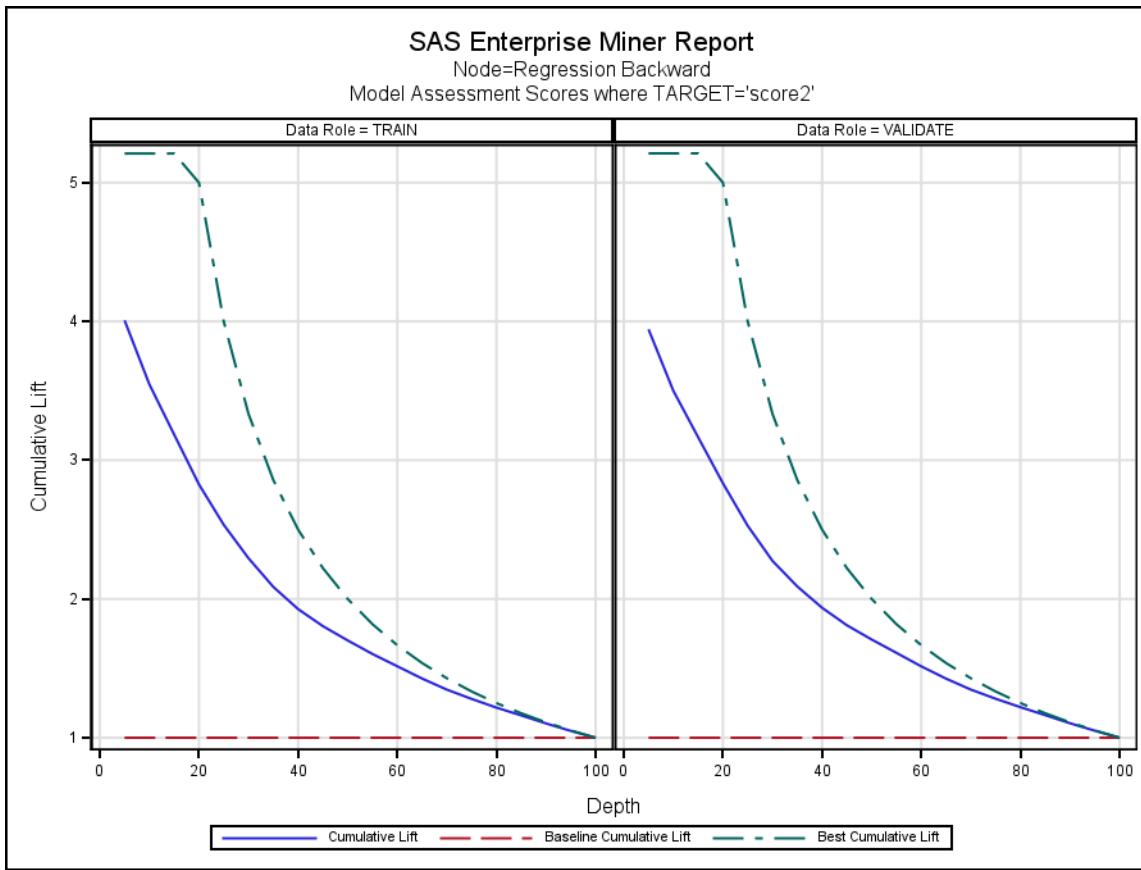
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	year	2002	0.96622	24.0453	9.356E-128	49	month	8	-0.23884	-4.6917	0.00000
11	state	NEBRASKA	0.95475	15.4524	7.2654E-54	50	state	TENNESSEE	0.22646	2.4600	0.01389
12	year	2012	0.93867	23.4544	1.191E-121	51	year	2000	-0.21628	-4.5178	0.00001
13	year	2003	0.90953	22.4117	3.026E-111	52	state	MISSISSIPPI	0.20924	2.2046	0.02748
14	state	CALIFORNIA	0.78422	11.2052	3.8452E-29	53	year	2014	0.19921	4.3930	0.00001
15	state	OKLAHOMA	0.75496	11.5363	8.6587E-31	54	month	10	0.17824	4.8082	0.00000
16	state	LOUISIANA	0.75452	8.8466	9.0262E-19	55	state	COLORADO	-0.17607	-1.9145	0.05555
17	year	2013	0.75419	18.3807	1.876E-75	56	TS		0.16365	12.2994	0.00000
18	state	SOUTH_DAKOTA	0.75009	11.7551	6.6466E-32	57	state	NEW_MEXICO	-0.16316	-1.7314	0.08338
19	year	2004	0.71649	17.1620	5.1121E-66	58	year	2005	-0.13039	-2.7194	0.00654
20	state	SOUTH_CAROLINA	0.64172	7.3889	1.4806E-13	59	WS10M		0.12817	3.4396	0.00058
21	state	NORTH_DAKOTA	-0.60325	-6.0180	.000000002	60	year	2006	-0.12249	-2.5931	0.00951
22	year	2007	0.59772	14.2839	2.7573E-46	61	year	2011	0.11537	2.5452	0.01092
23	state	VIRGINIA	-0.57781	-5.2230	.000000176	62	month	9	-0.11312	-2.6574	0.00788
24	state	ARKANSAS	0.56053	6.5458	5.9182E-11	63	month	4	-0.11172	-2.7869	0.00532
25	state	MISSOURI	-0.55485	-4.8205	.000001432	64	month	3	0.09936	2.3374	0.01942
26	state	INDIANA	-0.55093	-4.5590	.000005141	65	state	MAINE	-0.09297	-0.8219	0.41114
27	state	MINNESOTA	0.54348	6.6218	3.548E-11	66	state	TEXAS	-0.09080	-1.2433	0.21376
28	state	ALABAMA	0.53200	5.9574	.000000003	67	T2M_MAX		0.08825	8.2204	0.00000
29	month	6	-0.48059	-9.4835	2.4597E-21	68	T2M_MIN		0.08297	7.7518	0.00000
30	state	MONTANA	0.45730	5.8257	.000000006	69	WS50M		-0.08262	-2.6576	0.00787
31	state	FLORIDA	0.45434	4.1457	.000033885	70	state	WISCONSIN	0.08250	0.8558	0.39209
32	state	NEVADA	0.45099	5.0065	.000000554	71	T2MWET		-0.08075	-22.4356	0.00000
33	state	IDAHO	0.44103	4.9961	.000000585	72	PS		-0.06878	-12.1959	0.00000
34	state	MICHIGAN	-0.42625	-3.5663	.000362086	73	state	WASHINGTON	0.05025	0.6289	0.52941
35	state	NORTH_CAROLINA	0.42067	4.5272	.000005977	74	WS50M_MAX		-0.04915	-3.2172	0.00129
36	month	1	0.41053	7.9216	2.3452E-15	75	WS10M_RANGE		0.02766	2.2930	0.02185
37	month	7	-0.40029	-7.4135	1.2302E-13	76	state	UTAH	0.01584	0.1827	0.85503
38	year	2008	-0.38817	-7.6861	1.5164E-14	77	year	2015	0.01516	0.3231	0.74661
39	state	IOWA	0.38073	4.7950	.000001627	78	PRECTOT		0.01336	4.9759	0.00000

SAS Enterprise Miner Report
Node=Regression Backward
Model Iteration Plots

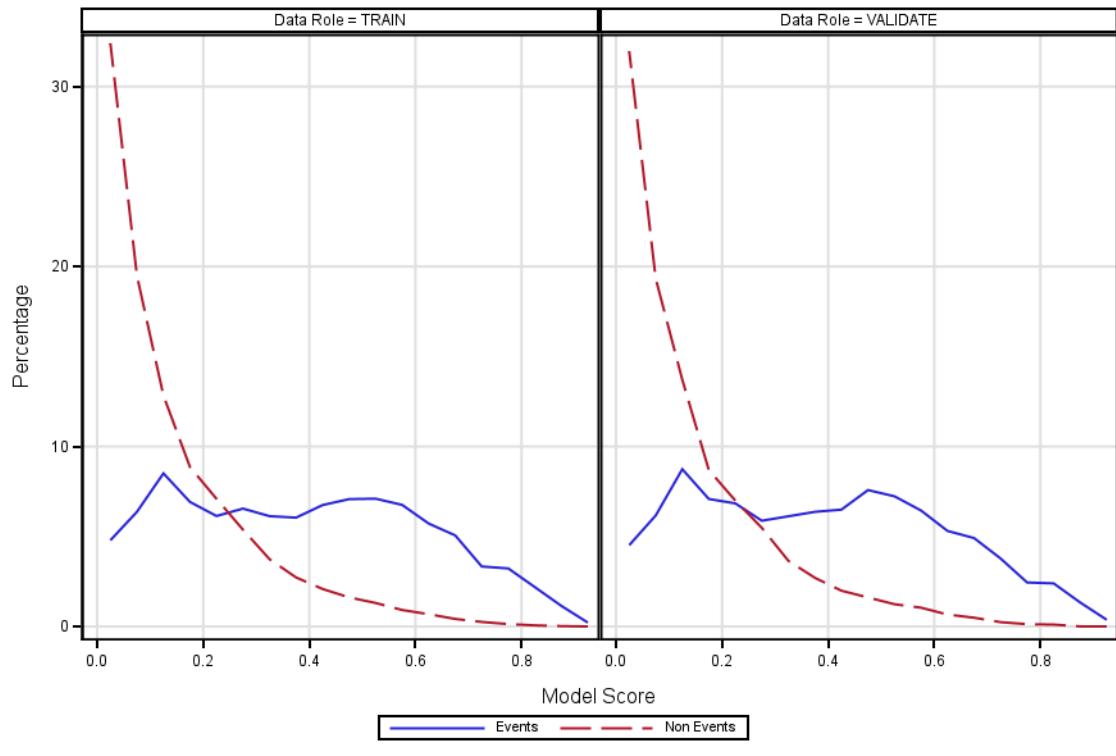


SAS Enterprise Miner Report
Node=Regression Backward
Model Assessment Scores where TARGET='score2'

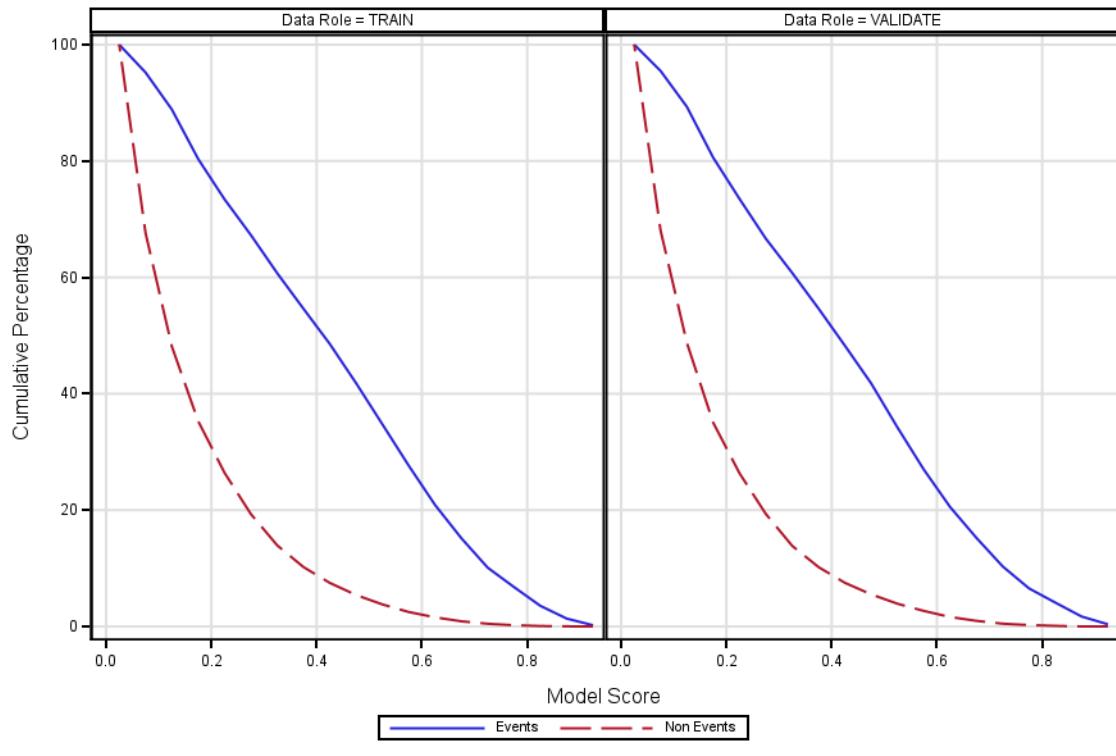




SAS Enterprise Miner Report
 Node=Regression Backward
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Backward
 Score Distributions where TARGET='score2'



Node=Regression Backward
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	139	1.14356	0.0215	1.357	0.021
0.80-0.85	266	2.18840	0.0625	3.546	0.084
0.75-0.80	392	3.22501	0.1329	6.771	0.217
0.70-0.75	405	3.33196	0.2521	10.103	0.469
0.65-0.70	615	5.05965	0.4182	15.162	0.887
0.60-0.65	695	5.71781	0.6820	20.880	1.569
0.55-0.60	821	6.75442	0.9145	27.635	2.484
0.50-0.55	863	7.09996	1.3053	34.735	3.789
0.45-0.50	860	7.07528	1.6160	41.810	5.405
0.40-0.45	820	6.74619	2.0830	48.556	7.488
0.35-0.40	735	6.04689	2.7239	54.603	10.212
0.30-0.35	745	6.12916	3.7381	60.732	13.950
0.25-0.30	796	6.54875	5.3756	67.281	19.325
0.20-0.25	746	6.13739	7.0932	73.418	26.419
0.15-0.20	841	6.91896	8.8596	80.337	35.278
0.10-0.15	1034	8.50679	12.8283	88.844	48.107
0.05-0.10	774	6.36775	19.4935	95.212	67.600
0.00-0.05	582	4.78815	32.4000	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	15	0.37028	0.0000	0.370	0.000
0.85-0.90	54	1.33300	0.0059	1.703	0.006
0.80-0.85	97	2.39447	0.1055	4.098	0.111
0.75-0.80	99	2.44384	0.1290	6.542	0.240
0.70-0.75	153	3.77685	0.2403	10.318	0.481
0.65-0.70	199	4.91237	0.4865	15.231	0.967
0.60-0.65	215	5.30733	0.6624	20.538	1.630
0.55-0.60	261	6.44285	1.0434	26.981	2.673
0.50-0.55	293	7.23278	1.2369	34.214	3.910
0.45-0.50	307	7.57838	1.6121	41.792	5.522
0.40-0.45	263	6.49222	1.9872	48.284	7.509
0.35-0.40	258	6.36880	2.7024	54.653	10.212
0.30-0.35	248	6.12195	3.6462	60.775	13.858
0.25-0.30	238	5.87509	5.4751	66.650	19.333
0.20-0.25	277	6.83782	6.9934	73.488	26.326
0.15-0.20	287	7.08467	8.6934	80.573	35.020
0.10-0.15	354	8.73858	13.7112	89.311	48.731
0.05-0.10	250	6.17132	19.3153	95.483	68.046
0.00-0.05	183	4.51740	31.9538	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Forward Summary

Node id = Reg9
 Node label = Regression Forward
 Meta path = Ids => Part => Reg9
 Notes =

Node=Regression Forward 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SIStay	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	FORWARD	NONE	SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Forward Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Forward Model Fit Statistics

Target=score2 Target Label=score2

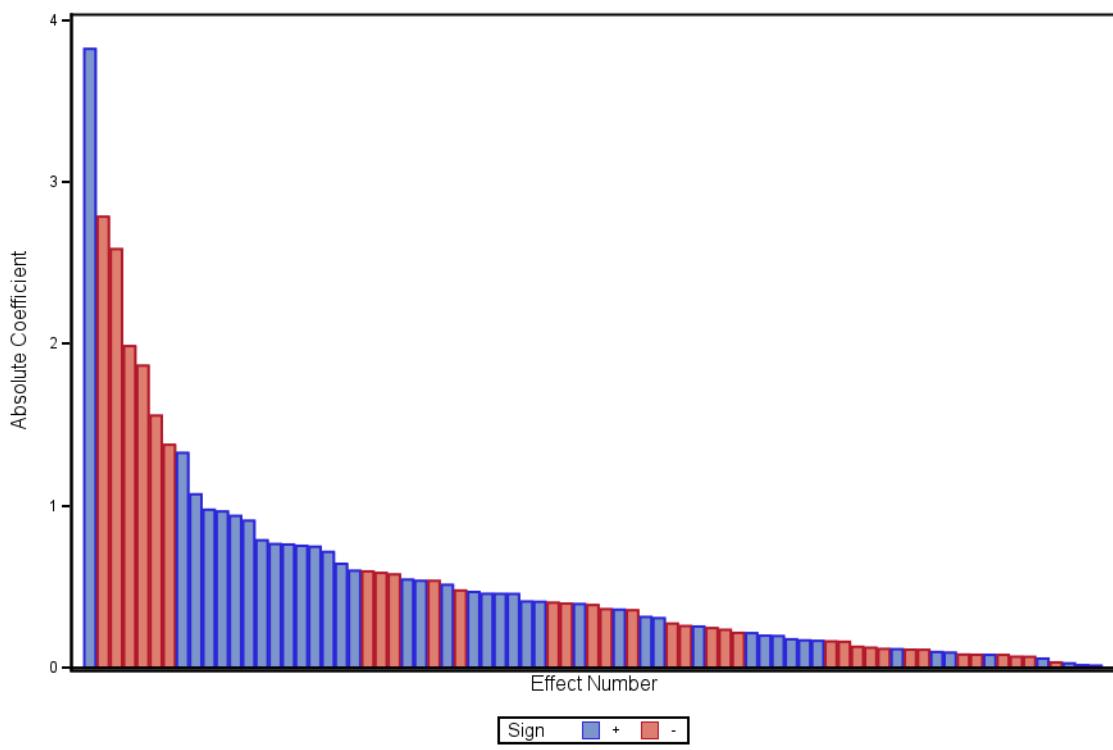
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47573.68	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.37	0.37	0.38
Degrees of Freedom for Error	63254.00	.	.
Model Degrees of Freedom	77.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47419.68	15788.46	15958.65
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	77.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48271.00	.	.
Sum of Squared Errors	14649.19	4897.30	4925.83
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Forward
Regression Model Effects



Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.82344	7.1937	6.3077E-13	40	state	KENTUCKY	-0.36201	-3.4640	0.00053
2	state	PENNSYLVANIA	-2.78669	-8.9897	2.4799E-19	41	state	KANSAS	0.35890	5.2197	0.00000
3	state	NEW_YORK	-2.58660	-8.2937	1.0975E-16	42	month	5	-0.35546	-8.3459	0.00000
4	state	WEST_VIRGINIA	-1.98731	-10.5865	3.4433E-26	43	state	ARIZONA	0.31368	3.5831	0.00034
5	state	OHIO	-1.86664	-8.9092	5.1422E-19	44	month	2	0.30655	6.1984	0.00000
6	year	2009	-1.55793	-20.7085	2.9019E-95	45	year	2001	-0.27267	-5.5293	0.00000
7	year	2010	-1.37750	-19.5148	8.2122E-85	46	state	ILLINOIS	-0.25779	-2.3177	0.02047
8	state	GEORGIA	1.32757	17.7769	1.0678E-70	47	month	11	0.25441	5.8240	0.00000
9	state	OREGON	1.07157	14.6645	1.088E-48	48	T2M		-0.24520	-9.5648	0.00000

SAS Enterprise Miner Report
Node=Regression Forward
Regression Model Effects

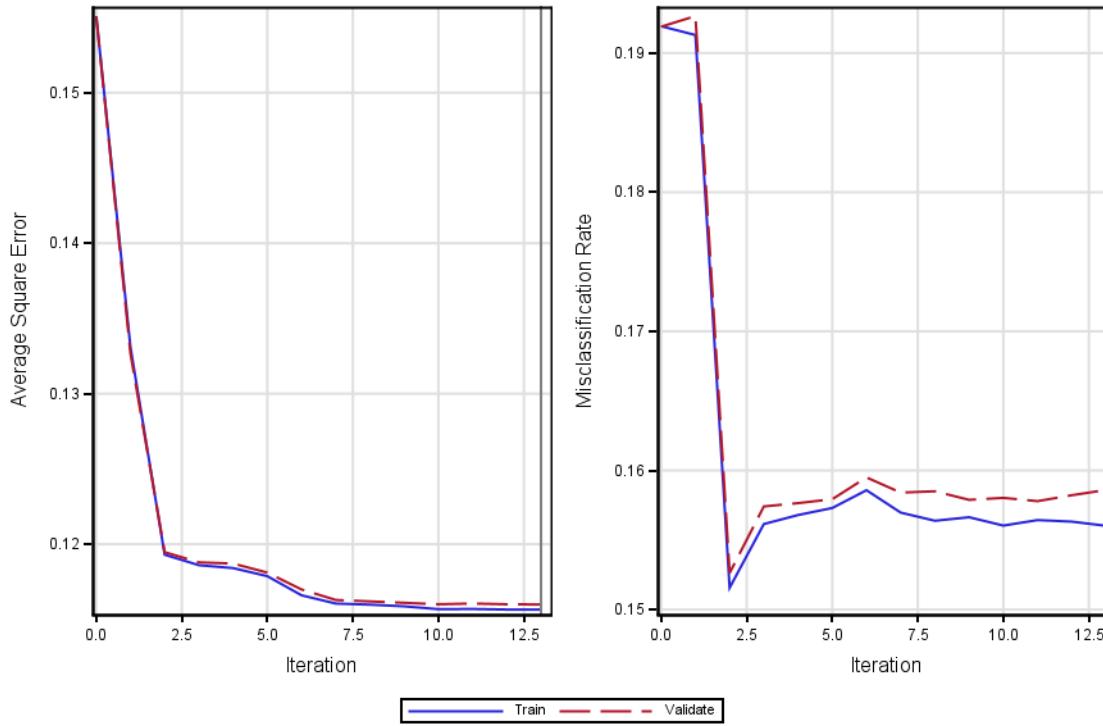
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Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
10	state	NEBRASKA	0.97623	15.9019	6.146E-57	49	month	8	-0.23440	-4.6217	0.00000
11	year	2002	0.96550	24.0206	1.694E-127	50	year	2000	-0.21522	-4.4962	0.00001
12	year	2012	0.93834	23.4480	1.387E-121	51	state	TENNESSEE	0.21372	2.3258	0.02003
13	year	2003	0.90866	22.3939	4.51E-111	52	year	2014	0.19805	4.3675	0.00001
14	state	CALIFORNIA	0.78755	11.2810	1.6288E-29	53	state	MISSISSIPPI	0.19595	2.0674	0.03869
15	state	SOUTH_DAKOTA	0.76424	12.0163	2.916E-33	54	month	10	0.17591	4.7485	0.00000
16	state	OKLAHOMA	0.76123	11.6477	2.3587E-31	55	TS		0.16904	13.0251	0.00000
17	year	2013	0.75314	18.3564	2.9348E-75	56	T2M_MAX		0.16610	8.5166	0.00000
18	state	LOUISIANA	0.74765	8.7735	1.7325E-18	57	state	NEW_MEXICO	-0.16272	-1.7264	0.08428
19	year	2004	0.71557	17.1439	6.9835E-66	58	state	COLORADO	-0.16044	-1.7476	0.08053
20	state	SOUTH_CAROLINA	0.64208	7.4052	1.3098E-13	59	year	2005	-0.12925	-2.6955	0.00703
21	year	2007	0.59947	14.3279	1.4641E-46	60	year	2006	-0.12356	-2.6149	0.00893
22	state	VIRGINIA	-0.59526	-5.4064	.000000064	61	state	MAINE	-0.11631	-1.0406	0.29806
23	state	NORTH_DAKOTA	-0.58593	-5.8575	.000000005	62	year	2011	0.11473	2.5305	0.01139
24	state	MISSOURI	-0.57674	-5.0467	.000000450	63	month	4	-0.11145	-2.7805	0.00543
25	state	ARKANSAS	0.54462	6.3821	1.7471E-10	64	month	9	-0.11083	-2.6074	0.00912
26	state	MINNESOTA	0.53716	6.5623	5.2969E-11	65	month	3	0.09705	2.2842	0.02236
27	state	INDIANA	-0.53694	-4.4527	.000008480	66	state	WISCONSIN	0.09336	0.9696	0.33223
28	state	ALABAMA	0.51241	5.7709	.000000008	67	T2M_RANGE		-0.08130	-7.5889	0.00000
29	month	6	-0.47716	-9.4441	3.5833E-21	68	T2MDEW		-0.08002	-22.7997	0.00000
30	state	MONTANA	0.46798	5.9633	.000000002	69	WS10M_MAX		0.07956	4.7017	0.00000
31	state	NEVADA	0.45677	5.0793	.000000379	70	state	TEXAS	-0.07940	-1.0940	0.27394
32	state	FLORIDA	0.45631	4.1838	.000028668	71	PS		-0.06810	-12.0722	0.00000
33	state	IDAHO	0.45593	5.1751	.000000228	72	WS50M_MAX		-0.06735	-4.5689	0.00000
34	state	NORTH_CAROLINA	0.40911	4.4042	.000010618	73	state	WASHINGTON	0.05645	0.7070	0.47959
35	month	1	0.40728	7.8856	3.1311E-15	74	WS50M		-0.03288	-2.3581	0.01837
36	state	MICHIGAN	-0.40208	-3.3882	.000703476	75	state	UTAH	0.02707	0.3133	0.75404
37	month	7	-0.39620	-7.3662	1.7555E-13	76	year	2015	0.01608	0.3427	0.73179
38	state	IOWA	0.39367	4.9682	.000000676	77	PRECTOT		0.01326	4.9376	0.00000
39	year	2008	-0.38761	-7.6744	1.6616E-14

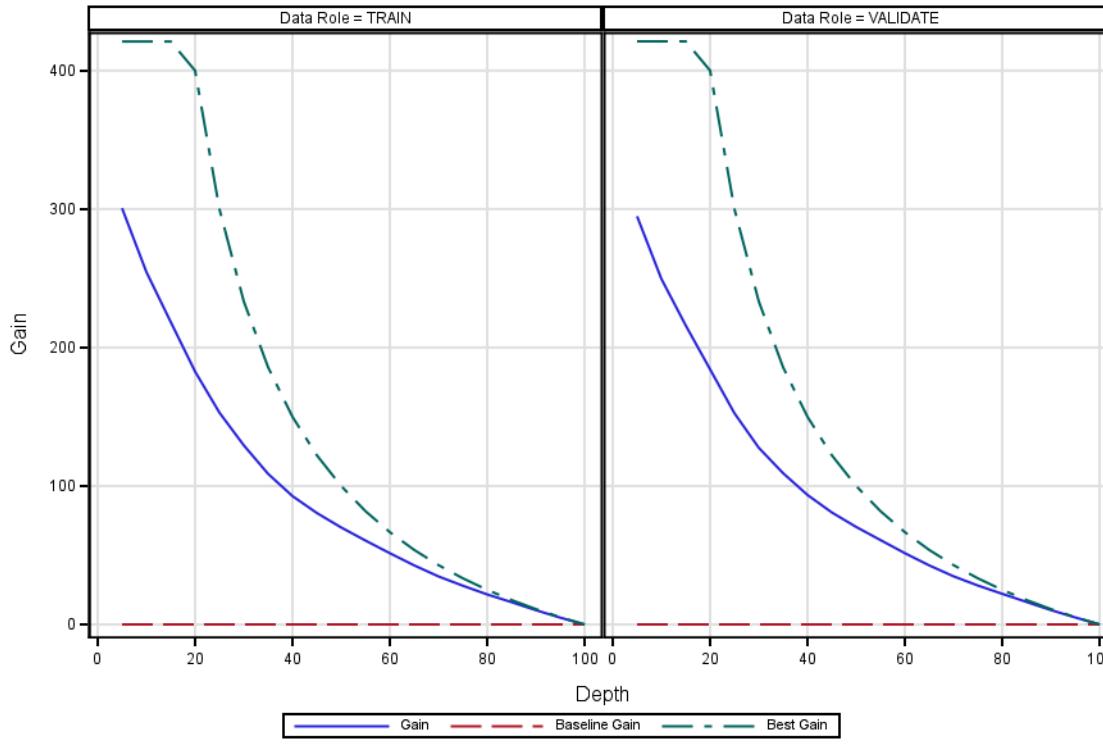
SAS Enterprise Miner Report
Node=Regression Forward
Model Iteration Plots

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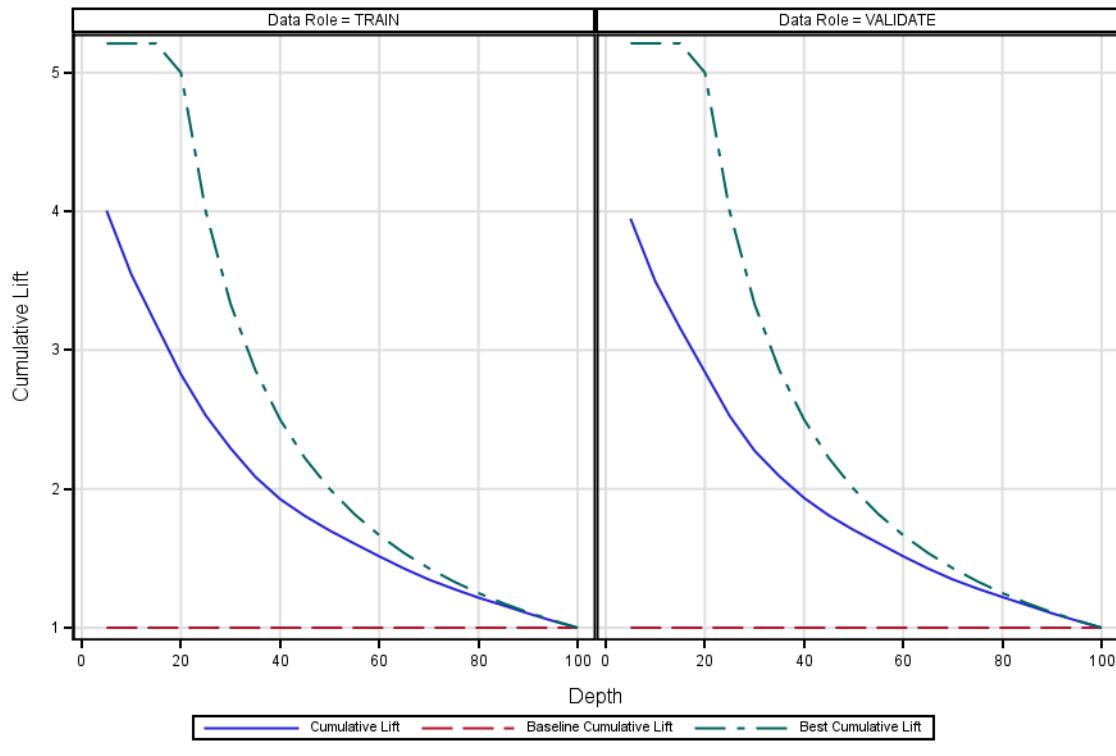
SAS Enterprise Miner Report
Node=Regression Forward
Model Iteration Plots



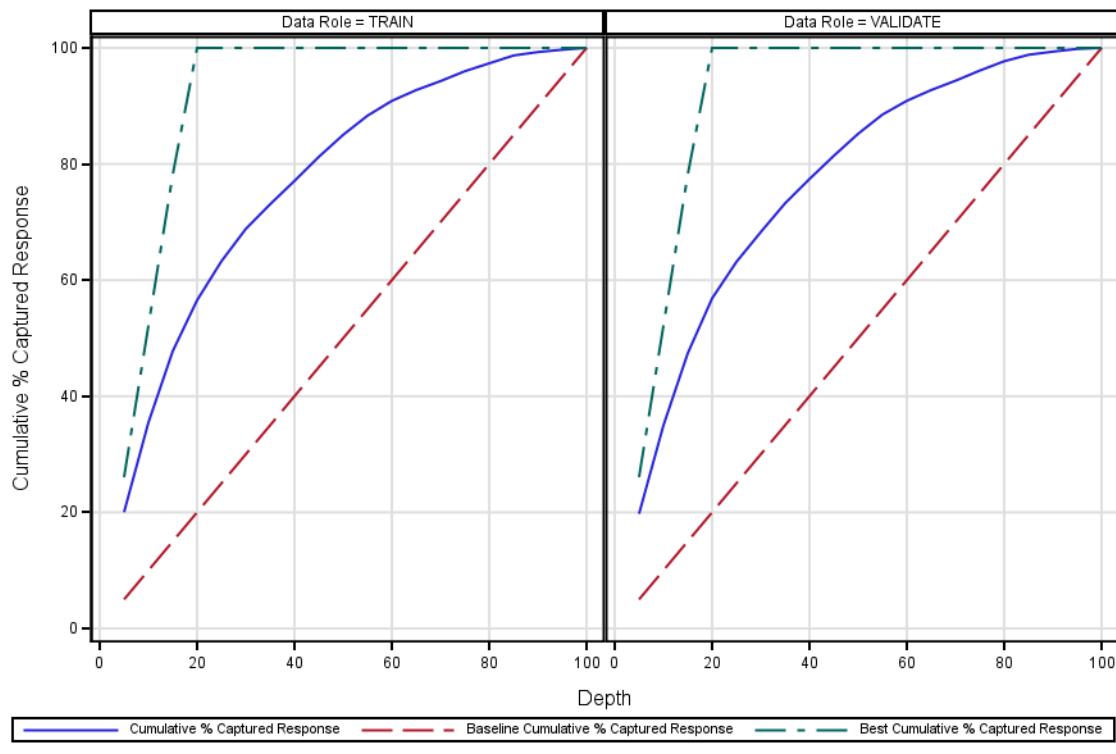
SAS Enterprise Miner Report
Node=Regression Forward
Model Assessment Scores where TARGET='score2'



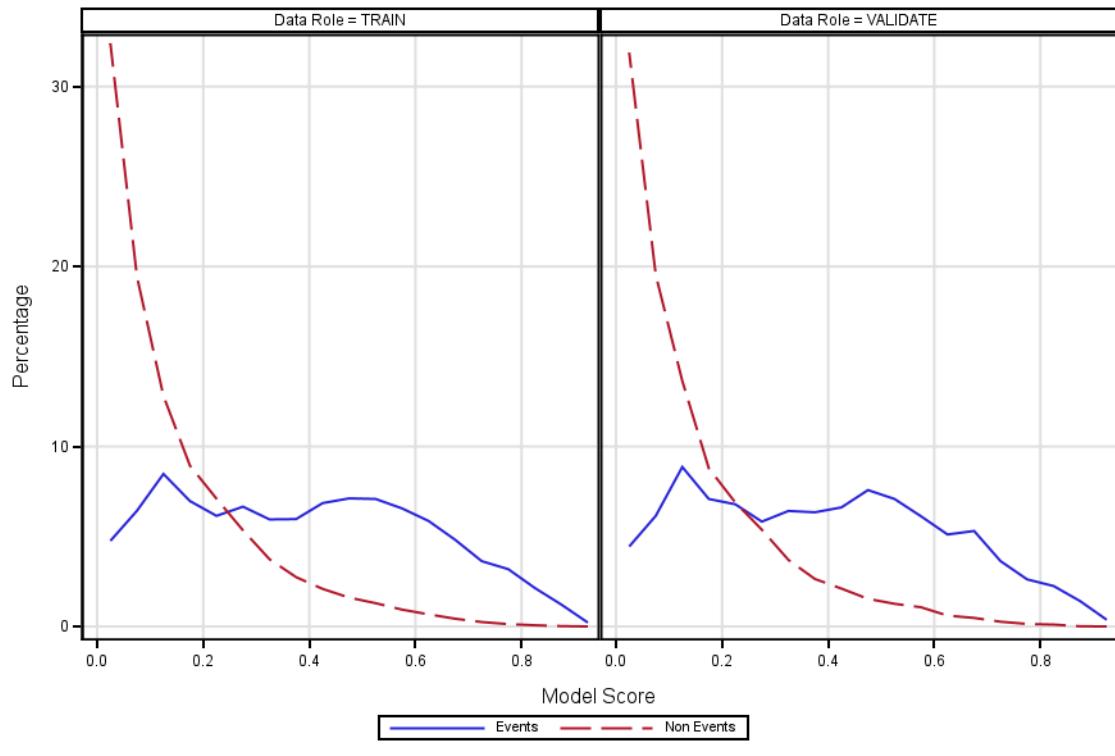
SAS Enterprise Miner Report
 Node=Regression Forward
 Model Assessment Scores where TARGET='score2'



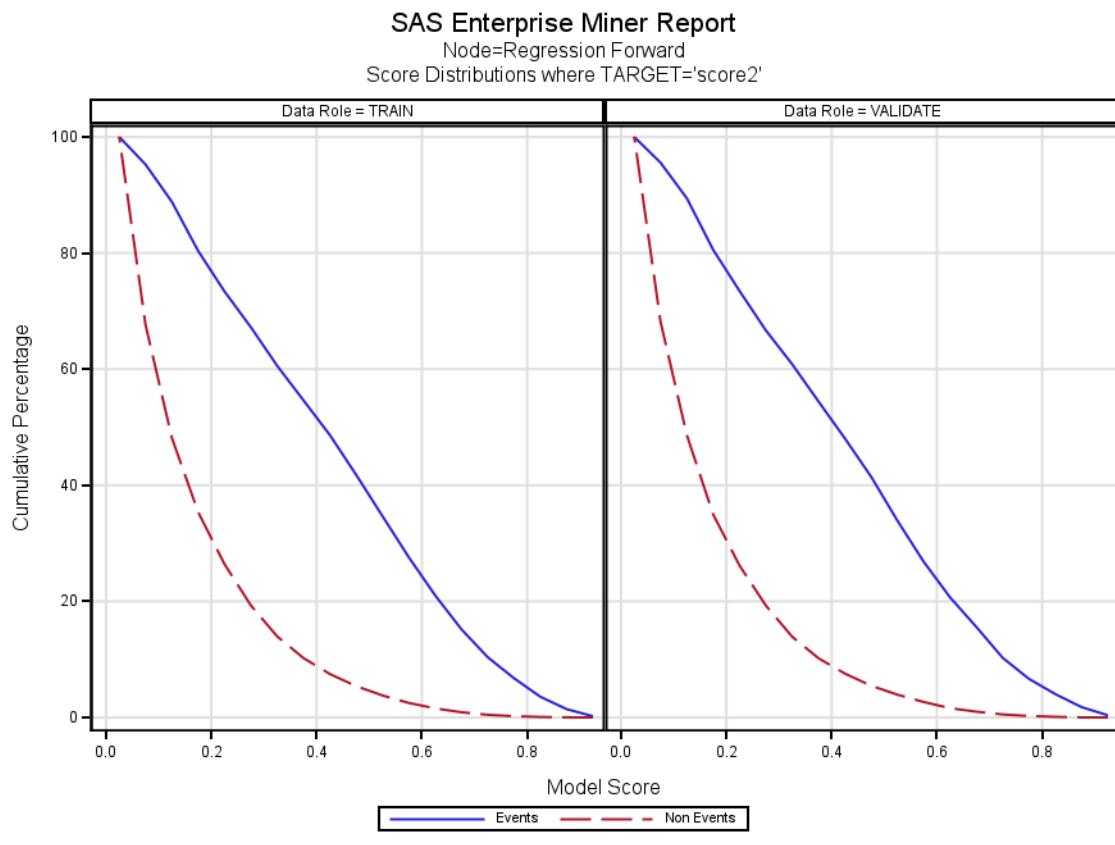
SAS Enterprise Miner Report
 Node=Regression Forward
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Forward
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Forward
 Score Distributions where TARGET='score2'



Node=Regression Forward
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	26	0.21390	0.0000	0.214	0.000
0.85-0.90	148	1.21761	0.0215	1.432	0.021
0.80-0.85	260	2.13904	0.0684	3.571	0.090
0.75-0.80	387	3.18387	0.1309	6.754	0.221
0.70-0.75	441	3.62814	0.2462	10.383	0.467
0.65-0.70	585	4.81283	0.4299	15.195	0.897
0.60-0.65	712	5.85767	0.6722	21.053	1.569
0.55-0.60	797	6.55697	0.9340	27.610	2.503
0.50-0.55	861	7.08350	1.2936	34.694	3.797
0.45-0.50	865	7.11641	1.6043	41.810	5.401
0.40-0.45	833	6.85315	2.0889	48.663	7.490
0.35-0.40	725	5.96462	2.7415	54.628	10.231
0.30-0.35	723	5.94817	3.7361	60.576	13.967
0.25-0.30	809	6.65570	5.3404	67.232	19.308
0.20-0.25	747	6.14562	7.1010	73.377	26.409
0.15-0.20	847	6.96833	8.9339	80.346	35.343
0.10-0.15	1030	8.47388	12.8087	88.819	48.151
0.05-0.10	781	6.42534	19.4486	95.245	67.600
0.00-0.05	578	4.75524	32.4000	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	15	0.37028	0.0000	0.370	0.000
0.85-0.90	57	1.40706	0.0117	1.777	0.012
0.80-0.85	91	2.24636	0.1055	4.024	0.117
0.75-0.80	106	2.61664	0.1407	6.640	0.258
0.70-0.75	147	3.62873	0.2638	10.269	0.522
0.65-0.70	215	5.30733	0.4748	15.576	0.997
0.60-0.65	207	5.10985	0.6038	20.686	1.600
0.55-0.60	248	6.12195	1.0669	26.808	2.667
0.50-0.55	287	7.08467	1.2603	33.893	3.928
0.45-0.50	307	7.57838	1.5358	41.471	5.463
0.40-0.45	268	6.61565	2.1045	48.087	7.568
0.35-0.40	257	6.34411	2.6379	54.431	10.206
0.30-0.35	260	6.41817	3.6989	60.849	13.905
0.25-0.30	236	5.82572	5.3755	66.675	19.280
0.20-0.25	275	6.78845	6.8879	73.463	26.168
0.15-0.20	287	7.08467	8.7872	80.548	34.955
0.10-0.15	359	8.86201	13.6468	89.410	48.602
0.05-0.10	249	6.14663	19.5263	95.557	68.128
0.00-0.05	180	4.44335	31.8717	100.000	100.000

SAS Enterprise Miner Report

Node=Regression Exhaustive Summary

Node id = Reg
 Node label = Regression Exhaustive
 Meta path = Ids => Part => Reg
 Notes =

Node=Regression Exhaustive 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	Y	
AbsXTime	1		LinkFunction	LOGIT		Sequential	N	
AbsXValue	1E-8		MainEffect	Y		Simple	N	
CIParam	N		MaxCPUTime	1 HOUR		SIEntry	0.05	
ConvDefaults	Y		MaxFunctionCalls	.		SIStay	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	NONE		SuppressOutput	N	
ExcludedVariable	REJECT		OptimizationTechnique	DEFAULT		Terms	N	
FConvTimes	1		Performance	N		TwoFactor	N	
FConvValue	0		Polynomial	N				

Node=Regression Exhaustive Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Regression Exhaustive Model Fit Statistics

Target=score2 Target Label=score2

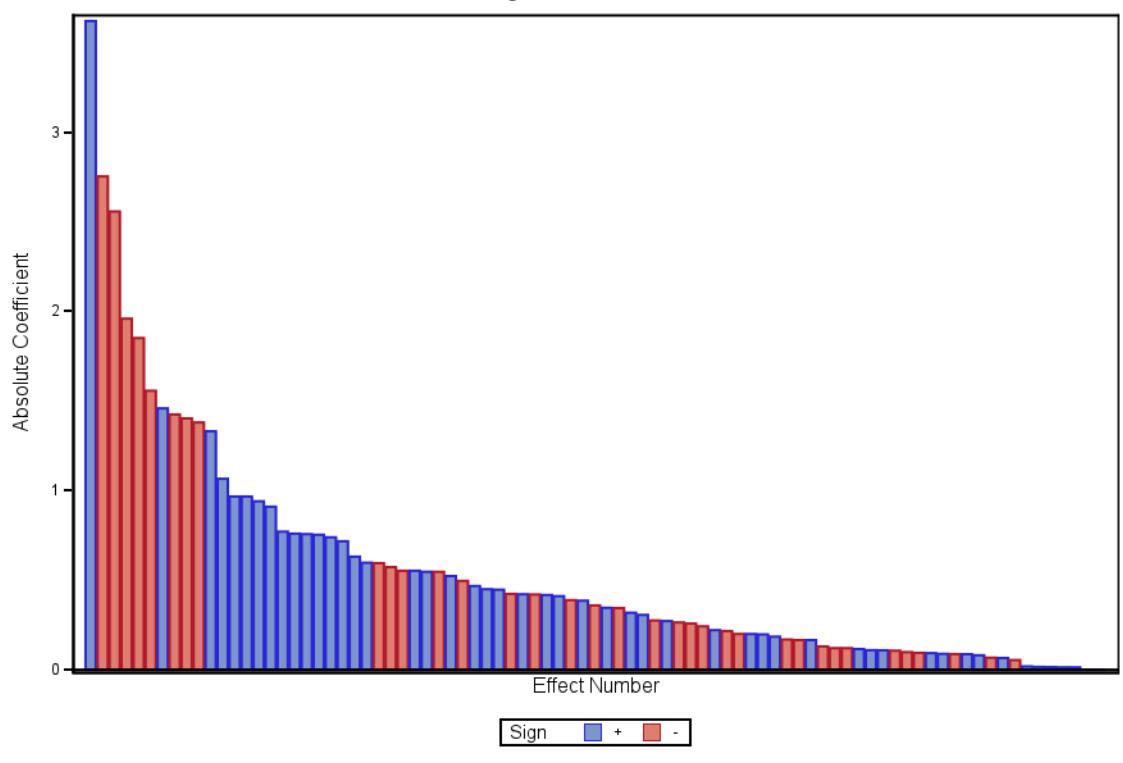
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	47579.10	.	.
Average Squared Error	0.12	0.12	0.12
Average Error Function	0.37	0.37	0.38
Degrees of Freedom for Error	63248.00	.	.
Model Degrees of Freedom	83.00	.	.

Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Divisor for ASE	126662.00	42220.00	42224.00
Error Function	47413.10	15777.50	15952.97
Final Prediction Error	0.12	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.12	0.12	0.12
Sum of Frequencies	63331.00	21110.00	21112.00
Number of Estimate Weights	83.00	.	.
Root Average Sum of Squares	0.34	0.34	0.34
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Schwarz's Bayesian Criterion	48330.76	.	.
Sum of Squared Errors	14643.98	4893.02	4923.49
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Misclassification Rate	0.16	0.16	0.16

SAS Enterprise Miner Report

Node=Regression Exhaustive
Regression Model Effects

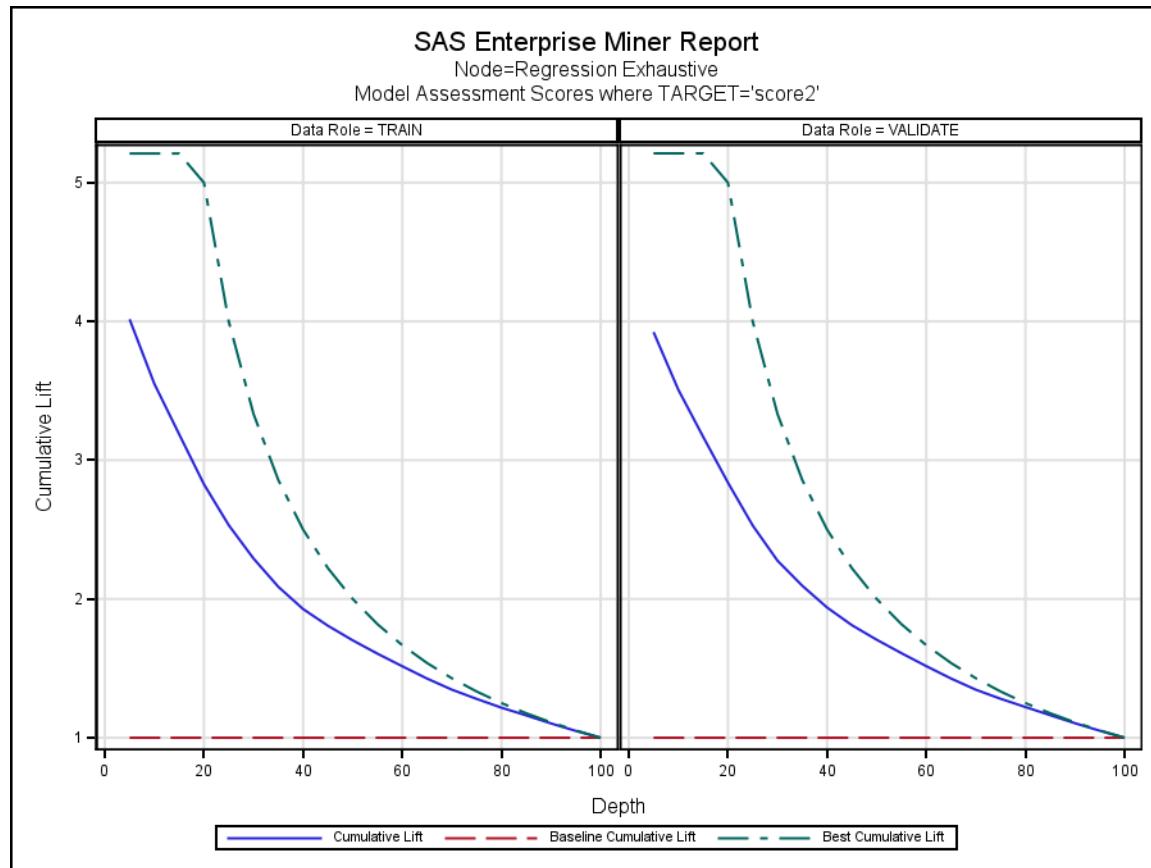
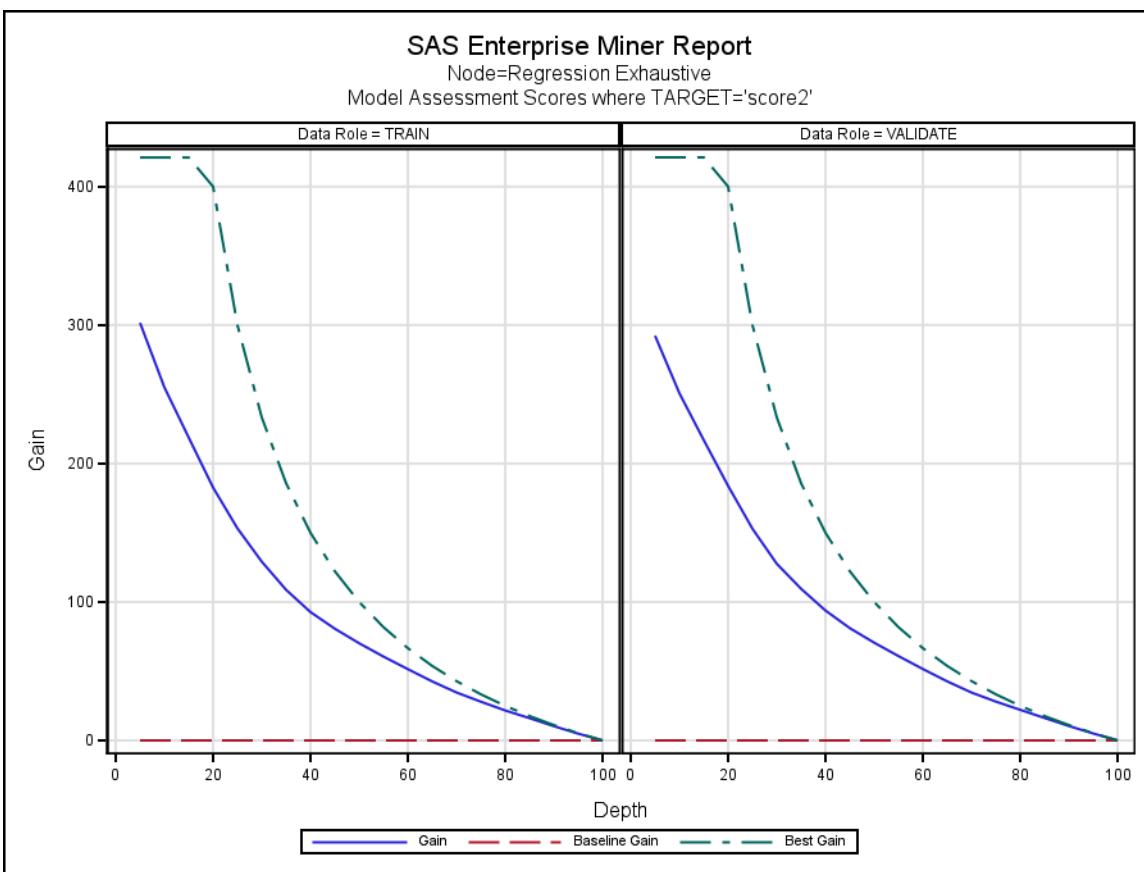


Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	3.61935	6.5038	7.8307E-11	44	state	KANSAS	0.34537	4.9874	0.00000
2	state	PENNSYLVANIA	-2.75242	-8.8649	7.6578E-19	45	state	KENTUCKY	-0.34406	-3.2782	0.00104
3	state	NEW_YORK	-2.55664	-8.1863	2.6942E-16	46	month	2	0.31784	6.3419	0.00000
4	state	WEST_VIRGINIA	-1.95858	-10.4018	2.4321E-25	47	state	ARIZONA	0.30592	3.4835	0.00049
5	state	OHIO	-1.85085	-8.8271	1.0742E-18	48	year	2001	-0.27483	-5.5670	0.00000
6	year	2009	-1.55646	-20.6868	4.5564E-95	49	month	11	0.27147	6.0455	0.00000
7	WS10M_MAX		1.45812	.	.	50	state	ILLINOIS	-0.26390	-2.3711	0.01773
8	WS10M_MIN		-1.42416	-29.6246	7.213E-193	51	month	8	-0.25756	-4.8567	0.00000
9	WS10M_RANGE		-1.40231	-63.5432	0	52	T2M		-0.24209	-9.3384	0.00000

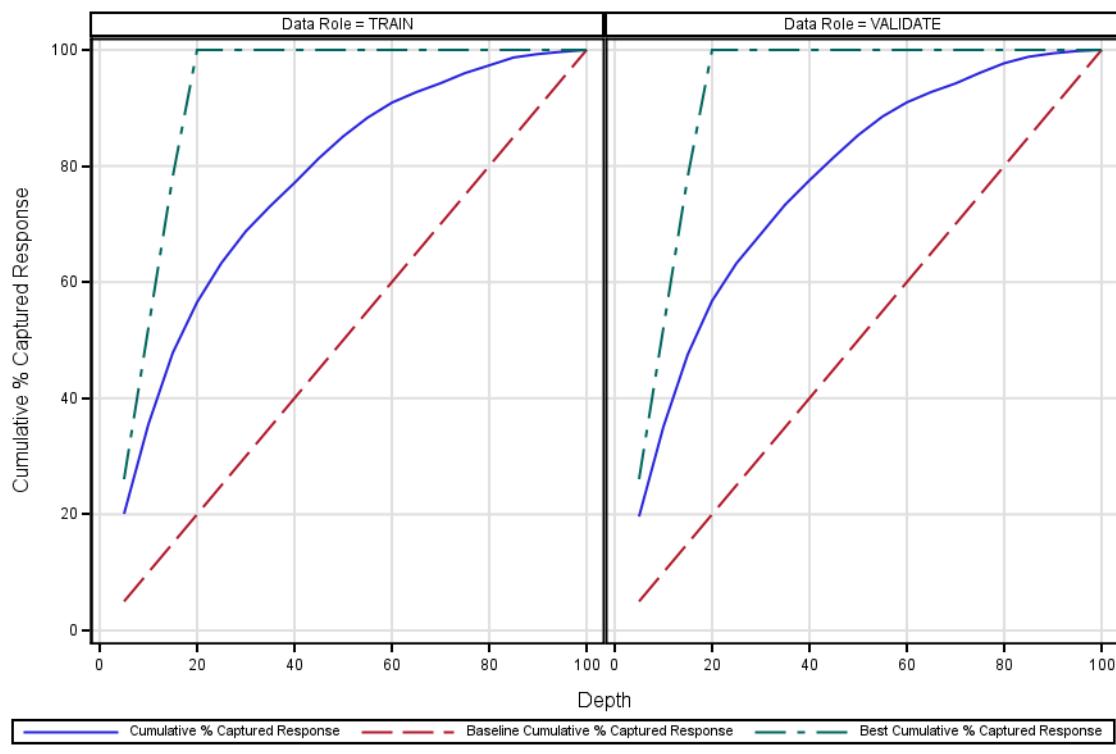
SAS Enterprise Miner Report
Node=Regression Exhaustive
Regression Model Effects

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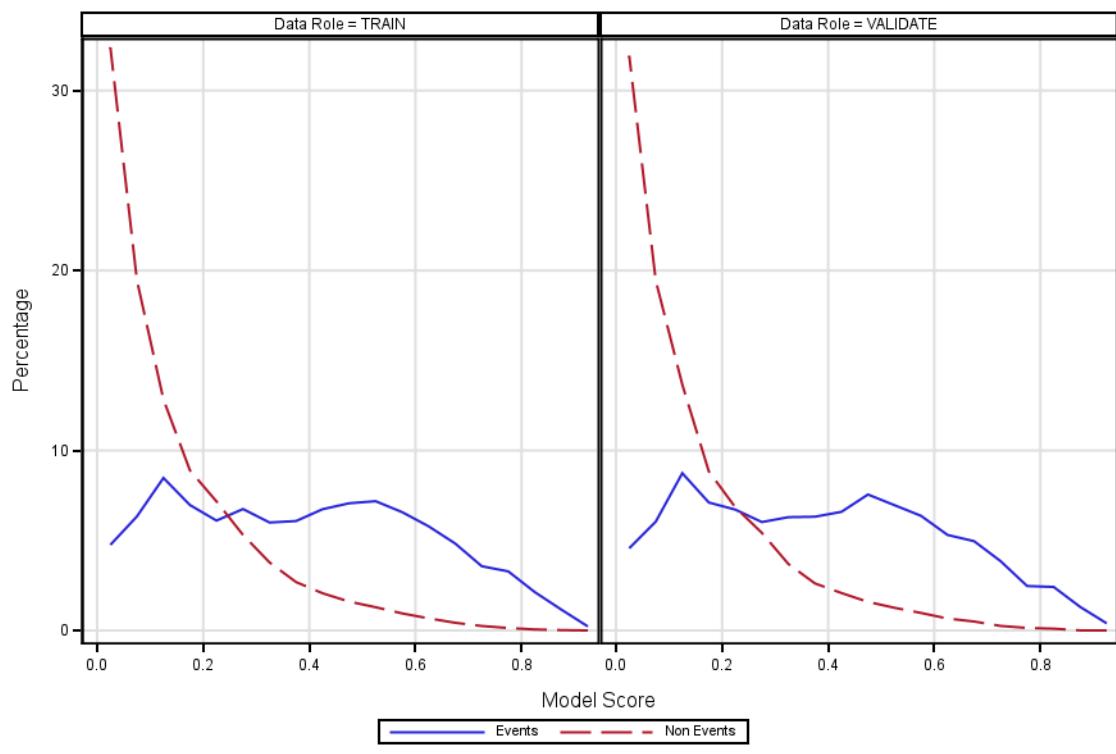
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value	
10	year	2010	-1.37964	-19.5410	4.9242E-85	53	state	TENNESSEE	0.22086	2.3969	0.01653	
11	state	GEORGIA	1.33036	17.6264	1.5458E-69	54	year	2000	-0.21566	-4.5020	0.00001	
12	state	OREGON	1.06536	14.4704	1.8635E-47	55	T2MWET			-0.19948	-1.4449	0.14848
13	state	NEBRASKA	0.96633	15.5762	1.057E-54	56	year	2014	0.19920	4.3879	0.00001	
14	year	2002	0.96631	24.0262	1.482E-127	57	state	MISSISSIPPI	0.19713	2.0685	0.03859	
15	year	2012	0.93974	23.4711	8.045E-122	58	month	10	0.18442	4.9095	0.00000	
16	year	2003	0.90954	22.4081	3.283E-111	59	state	COLORADO	-0.16846	-1.8300	0.06726	
17	state	CALIFORNIA	0.77031	10.9119	1.0108E-27	60	state	NEW_MEXICO	-0.16532	-1.7497	0.08017	
18	state	SOUTH_DAKOTA	0.75922	11.8655	1.7887E-32	61	TS		0.16521	12.1607	0.00000	
19	state	OKLAHOMA	0.75658	11.5405	8.2459E-31	62	year	2005	-0.13005	-2.7118	0.00669	
20	year	2013	0.75285	18.3425	3.7908E-75	63	month	9	-0.12052	-2.8124	0.00492	
21	state	LOUISIANA	0.73881	8.5685	1.0481E-17	64	year	2006	-0.12046	-2.5483	0.01083	
22	year	2004	0.71680	17.1609	5.2131E-66	65	year	2011	0.11542	2.5461	0.01089	
23	state	SOUTH_CAROLINA	0.63070	7.2259	4.9765E-13	66	T2MDEW		0.10908	0.8224	0.41083	
24	year	2007	0.59702	14.2602	3.8714E-46	67	month	3	0.10848	2.5171	0.01183	
25	state	NORTH_DAKOTA	-0.59447	-5.9234	.000000003	68	month	4	-0.10626	-2.6347	0.00842	
26	state	VIRGINIA	-0.57257	-5.1733	.000000230	69	state	TEXAS	-0.09823	-1.3384	0.18077	
27	state	MISSOURI	-0.55219	-4.7952	.000001625	70	WS50M		-0.09428	-2.4676	0.01360	
28	state	ARKANSAS	0.55212	6.4312	1.2662E-10	71	WS10M		0.09269	1.8257	0.06789	
29	state	MINNESOTA	0.54636	6.6408	3.1204E-11	72	T2M_MAX		0.08843	8.1755	0.00000	
30	state	INDIANA	-0.54607	-4.5131	.000006389	73	state	MAINE	-0.08706	-0.7679	0.44257	
31	state	ALABAMA	0.52255	5.8170	.000000006	74	state	WISCONSIN	0.08649	0.8943	0.37114	
32	month	6	-0.49562	-9.5227	1.6868E-21	75	T2M_MIN		0.08068	7.4609	0.00000	
33	state	MONTANA	0.46687	5.9129	.000000003	76	PS		-0.06704	-11.6956	0.00000	
34	state	IDAHO	0.44933	5.0654	.000000408	77	state	WASHINGTON	0.06537	0.8057	0.42041	
35	state	NEVADA	0.44663	4.9498	.000000743	78	WS50M_MAX		-0.05389	-3.1693	0.00153	
36	month	7	-0.42303	-7.4516	9.2186E-14	79	QV2M		0.01848	1.3442	0.17889	
37	month	1	0.42100	8.0126	1.1227E-15	80	WS50M_MIN		0.01569	0.6494	0.51606	
38	state	MICHIGAN	-0.41983	-3.4858	.000490721	81	year	2015	0.01488	0.3170	0.75128	
39	state	FLORIDA	0.41693	3.7139	.000204083	82	state	UTAH	0.01348	0.1554	0.87652	
40	state	NORTH_CAROLINA	0.41051	4.4061	.000010526	83	PRECTOT		0.01337	4.9522	0.00000	
41	year	2008	-0.38845	-7.6896	1.4755E-14	84	T2M_RANGE		0.00000	.	.	
42	state	IOWA	0.38508	4.8482	.000001246	85	WS50M_RANGE		0.00000	.	.	
43	month	5	-0.35878	-8.3810	5.2496E-17	



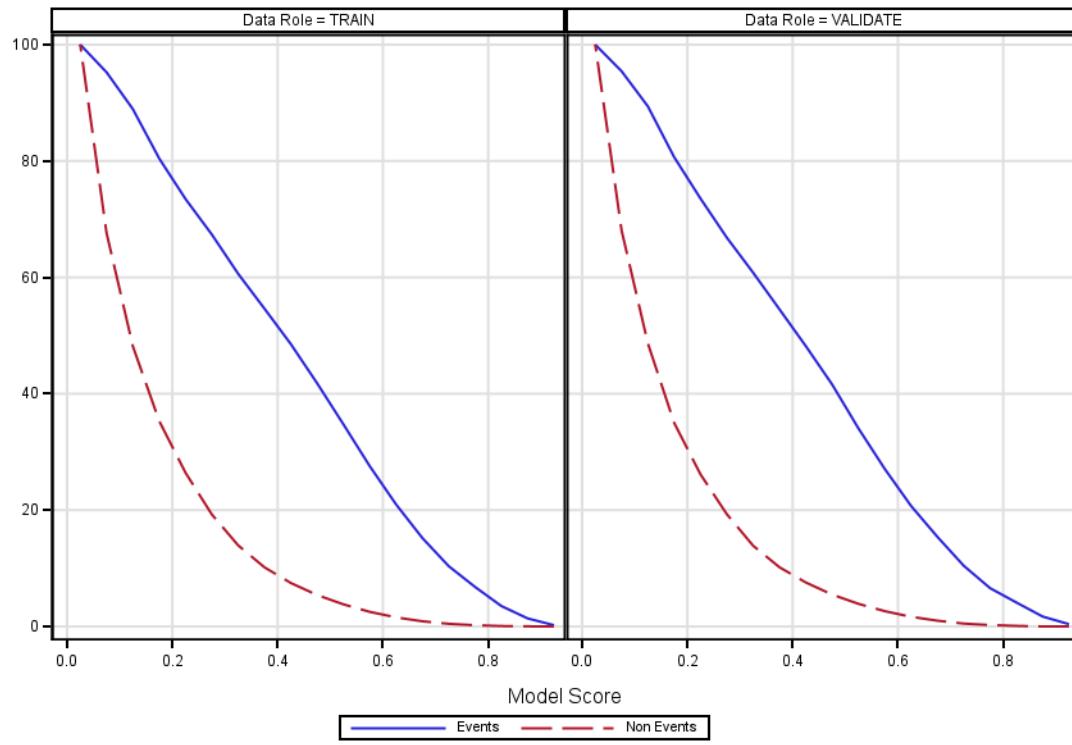
SAS Enterprise Miner Report
 Node=Regression Exhaustive
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Exhaustive
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Regression Exhaustive
 Score Distributions where TARGET='score2'



**Node=Regression Exhaustive
 Score Distributions**

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	27	0.22213	0.0000	0.222	0.000
0.85-0.90	141	1.16002	0.0215	1.382	0.021
0.80-0.85	259	2.13081	0.0567	3.513	0.078
0.75-0.80	399	3.28260	0.1368	6.796	0.215
0.70-0.75	434	3.57055	0.2482	10.366	0.463
0.65-0.70	587	4.82929	0.4279	15.195	0.891
0.60-0.65	703	5.78363	0.6722	20.979	1.563
0.55-0.60	799	6.57343	0.9477	27.552	2.511
0.50-0.55	873	7.18223	1.2916	34.735	3.803
0.45-0.50	859	7.06705	1.6043	41.802	5.407
0.40-0.45	819	6.73797	2.0674	48.540	7.474
0.35-0.40	739	6.07980	2.6888	54.619	10.163
0.30-0.35	729	5.99753	3.7791	60.617	13.942
0.25-0.30	820	6.74619	5.3072	67.363	19.249
0.20-0.25	742	6.10448	7.1694	73.468	26.419
0.15-0.20	847	6.96833	8.8909	80.436	35.310
0.10-0.15	1030	8.47388	12.8341	88.910	48.144
0.05-0.10	770	6.33484	19.4583	95.245	67.602
0.00-0.05	578	4.75524	32.3980	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	16	0.39496	0.0000	0.395	0.000
0.85-0.90	53	1.30832	0.0059	1.703	0.006
0.80-0.85	98	2.41916	0.0997	4.122	0.106
0.75-0.80	100	2.46853	0.1407	6.591	0.246
0.70-0.75	156	3.85090	0.2521	10.442	0.498
0.65-0.70	201	4.96174	0.4983	15.404	0.997
0.60-0.65	215	5.30733	0.6624	20.711	1.659
0.55-0.60	258	6.36880	0.9731	27.080	2.632
0.50-0.55	282	6.96124	1.2603	34.041	3.892
0.45-0.50	306	7.55369	1.5886	41.595	5.481
0.40-0.45	267	6.59097	2.0810	48.186	7.562
0.35-0.40	256	6.31943	2.6145	54.505	10.176
0.30-0.35	255	6.29474	3.6931	60.800	13.870
0.25-0.30	244	6.02320	5.4224	66.823	19.292
0.20-0.25	272	6.71439	6.8410	73.537	26.133
0.15-0.20	288	7.10936	8.8399	80.647	34.973
0.10-0.15	354	8.73858	13.6643	89.385	48.637
0.05-0.10	245	6.04789	19.4384	95.433	68.076
0.00-0.05	185	4.56677	31.9245	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 20HU Summary

Node id = Neural14
 Node label = Neural Network 20HU
 Meta path = Ids => Part => Neural14
 Notes =

Node=Neural Network 20HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	20	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	MISCLASSIFICATION	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 20HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 20HU Model Fit Statistics

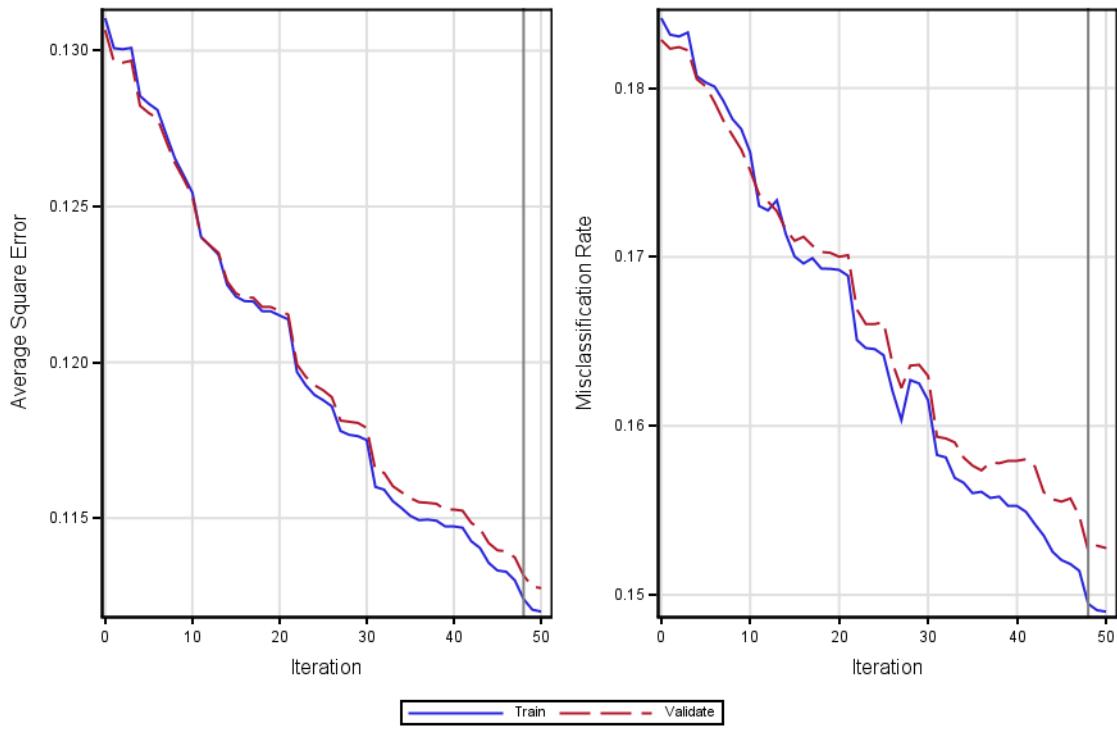
Target=score2 Target Label=score2

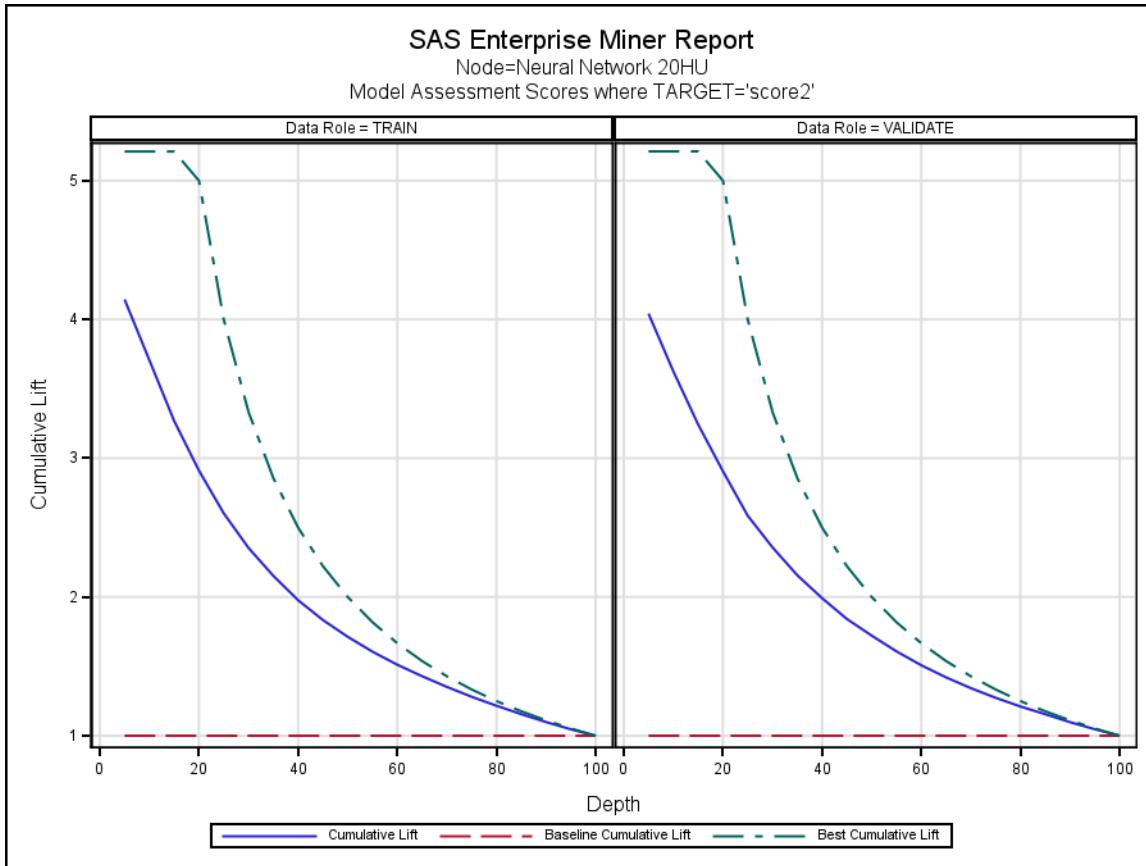
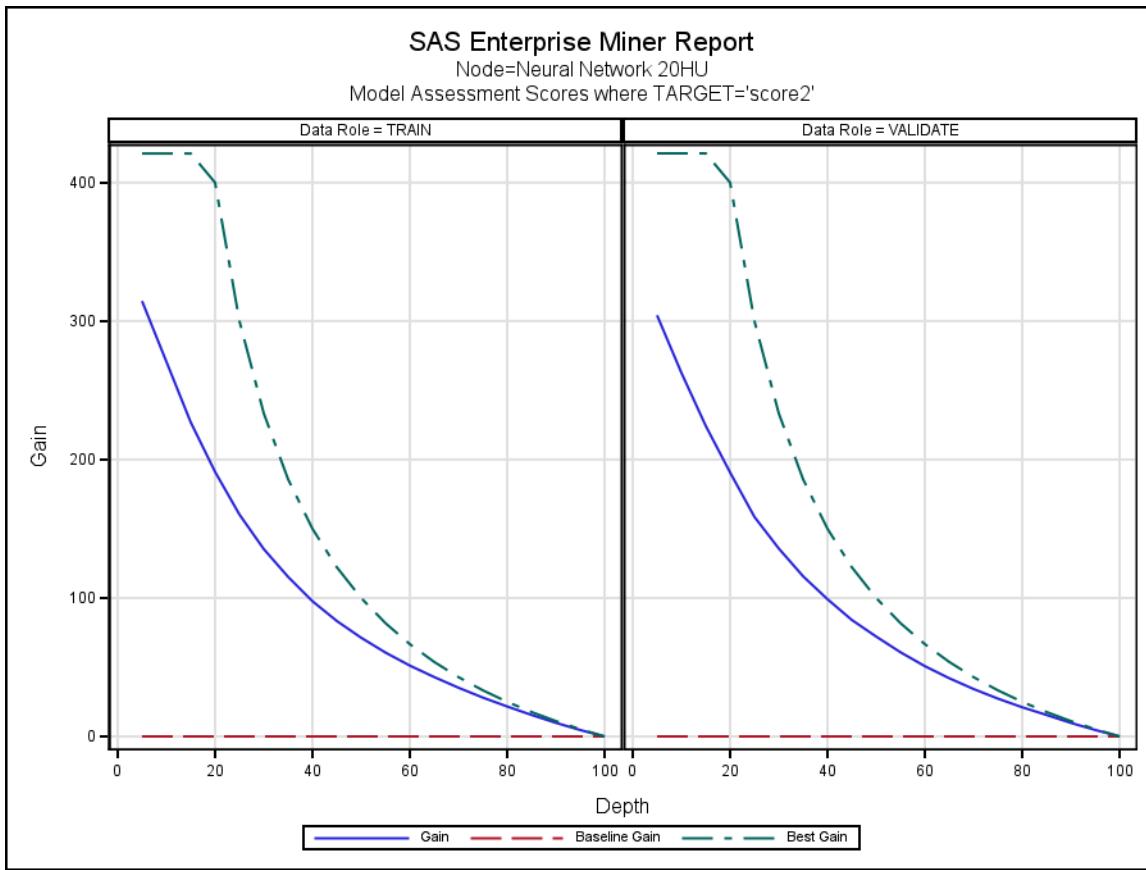
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	61610.00	.	.
Model Degrees of Freedom	1721.00	.	.
Number of Estimated Weights	1721.00	.	.

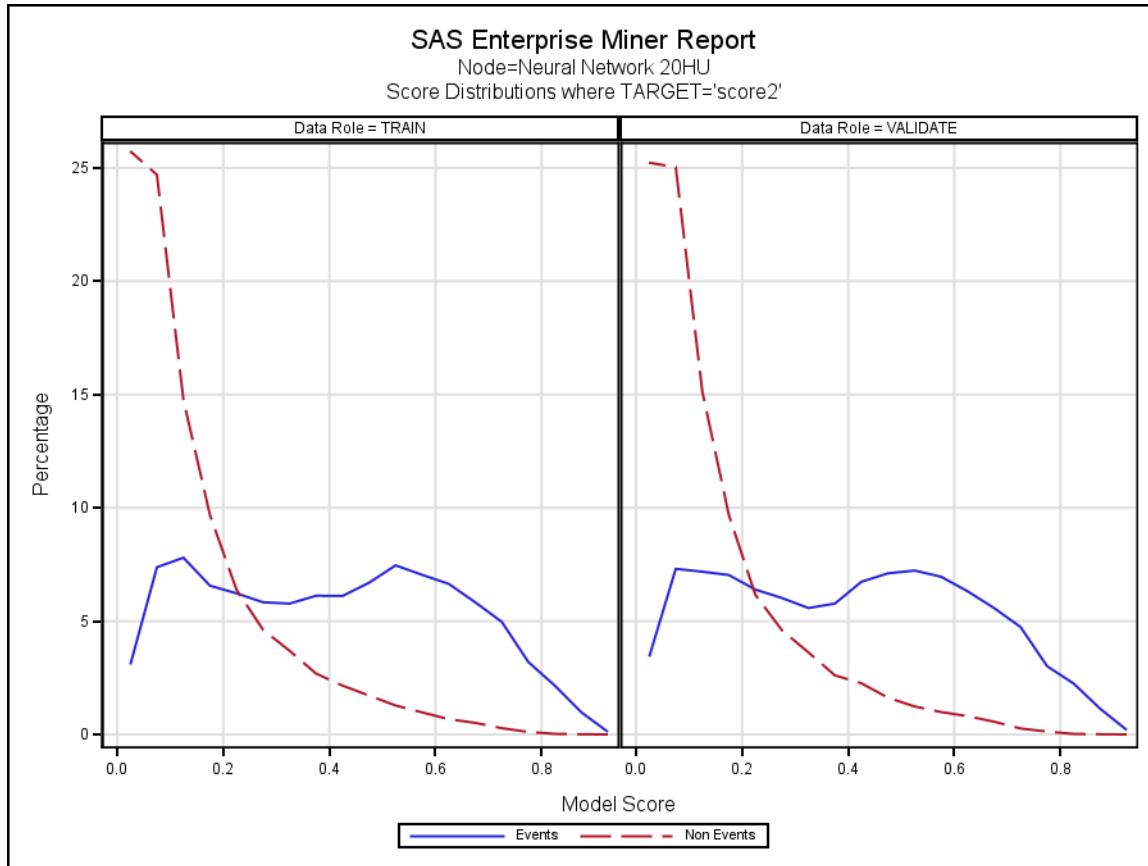
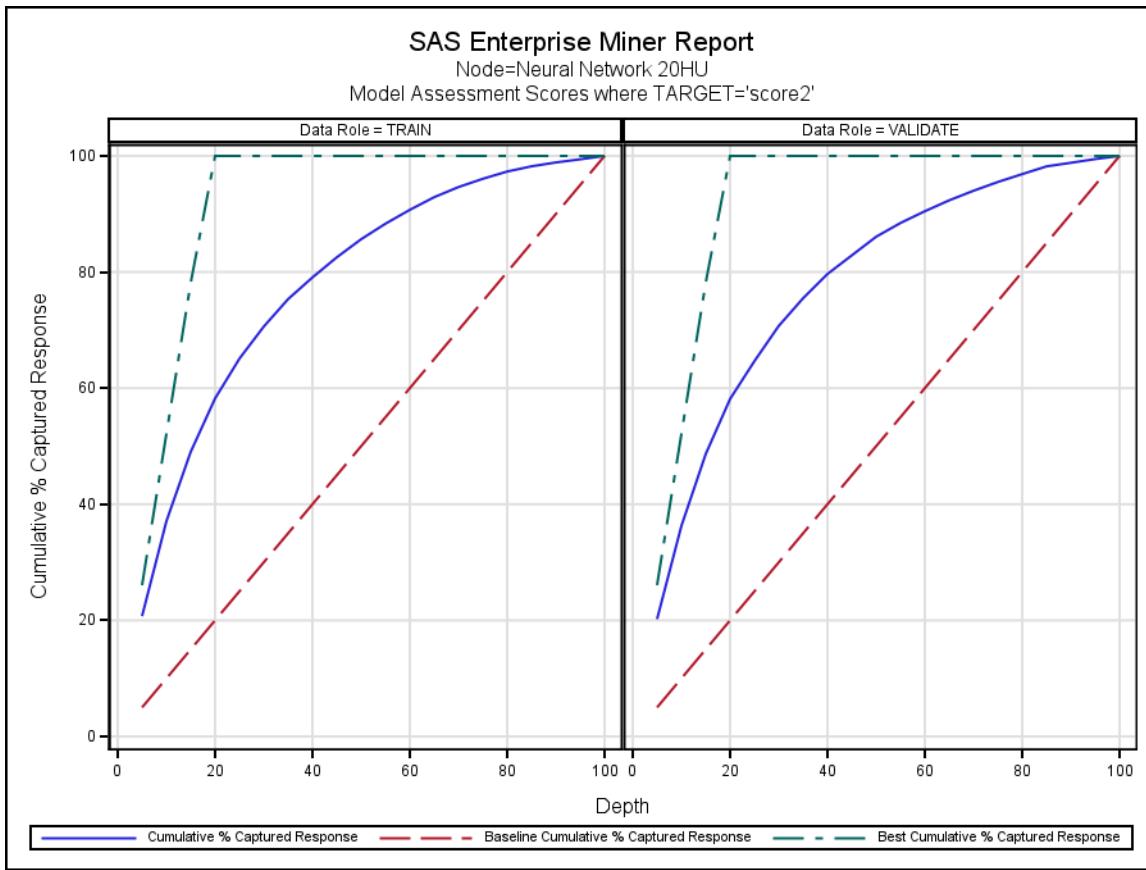
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	49849.69	.	.
Schwarz's Bayesian Criterion	65435.29	.	.
Average Squared Error	0.11	0.11	0.11
Maximum Absolute Error	0.99	1.00	1.00
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.34	0.34	0.34
Sum of Squared Errors	14237.21	4777.62	4791.86
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.12	.	.
Mean Squared Error	0.12	0.11	0.11
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Average Error Function	0.37	0.37	0.37
Error Function	46407.69	15553.33	15609.35
Misclassification Rate	0.15	0.15	0.15
Number of Wrong Classifications	9466.00	3222.00	3182.00

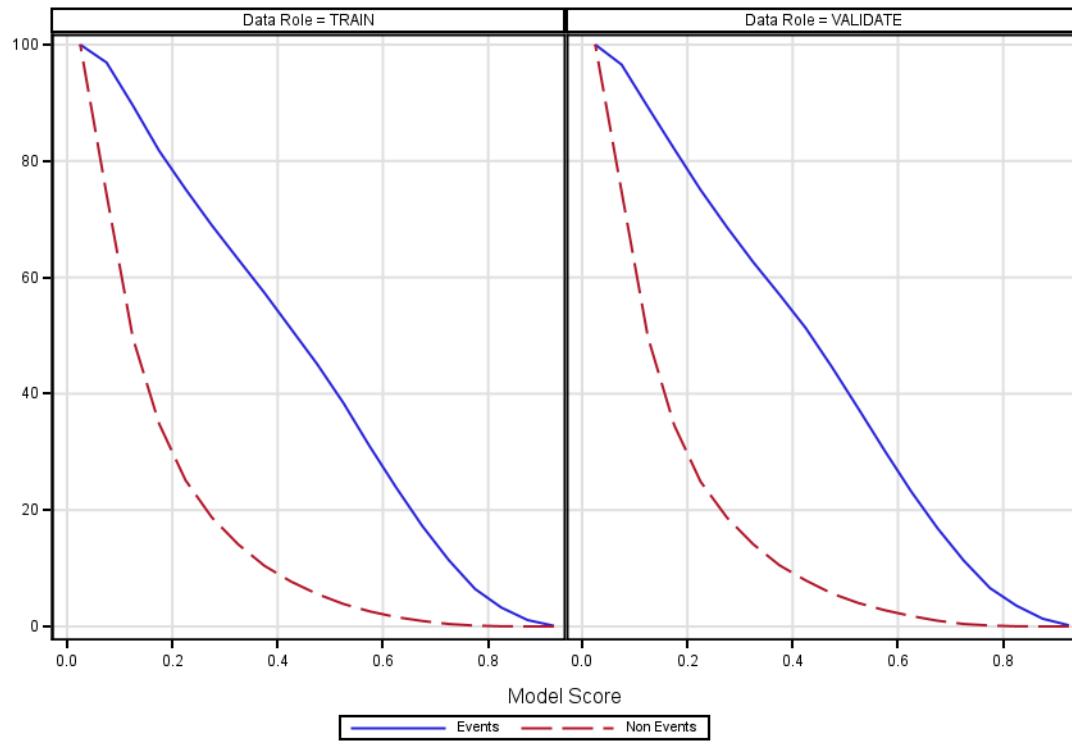
SAS Enterprise Miner Report
Node=Neural Network 20HU
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Neural Network 20HU
 Score Distributions where TARGET='score2'



Node=Neural Network 20HU
Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	14	0.11518	0.0000	0.115	0.000
0.85-0.90	119	0.97902	0.0098	1.094	0.010
0.80-0.85	262	2.15549	0.0274	3.250	0.037
0.75-0.80	389	3.20033	0.1133	6.450	0.150
0.70-0.75	604	4.96915	0.2775	11.419	0.428
0.65-0.70	709	5.83299	0.5120	17.252	0.940
0.60-0.65	808	6.64747	0.6741	23.900	1.614
0.55-0.60	856	7.04237	0.9751	30.942	2.589
0.50-0.55	907	7.46195	1.2779	38.404	3.867
0.45-0.50	814	6.69683	1.7156	45.101	5.583
0.40-0.45	743	6.11271	2.1553	51.213	7.738
0.35-0.40	744	6.12094	2.6868	57.334	10.425
0.30-0.35	702	5.77540	3.6931	63.110	14.118
0.25-0.30	709	5.83299	4.6233	68.943	18.741
0.20-0.25	757	6.22789	6.3897	75.171	25.131
0.15-0.20	798	6.56520	9.6823	81.736	34.813
0.10-0.15	948	7.79926	14.7608	89.535	49.574
0.05-0.10	897	7.37968	24.6952	96.915	74.269
0.00-0.05	375	3.08515	25.7308	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	8	0.19748	0.0000	0.197	0.000
0.85-0.90	46	1.13552	0.0117	1.333	0.012
0.80-0.85	91	2.24636	0.0234	3.579	0.035
0.75-0.80	122	3.01160	0.1290	6.591	0.164
0.70-0.75	192	4.73957	0.2638	11.331	0.428
0.65-0.70	226	5.57887	0.5628	16.909	0.991
0.60-0.65	256	6.31943	0.8090	23.229	1.800
0.55-0.60	282	6.96124	0.9907	30.190	2.790
0.50-0.55	293	7.23278	1.2369	37.423	4.027
0.45-0.50	288	7.10936	1.6238	44.532	5.651
0.40-0.45	273	6.73908	2.2569	51.271	7.908
0.35-0.40	234	5.77635	2.6086	57.048	10.516
0.30-0.35	226	5.57887	3.6227	62.627	14.139
0.25-0.30	244	6.02320	4.6017	68.650	18.741
0.20-0.25	259	6.39348	6.1668	75.043	24.908
0.15-0.20	285	7.03530	9.6899	82.078	34.598
0.10-0.15	291	7.18341	15.1416	89.262	49.739
0.05-0.10	296	7.30684	25.0308	96.569	74.770
0.00-0.05	139	3.43125	25.2301	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 10HU Summary

Node id = Neural10
 Node label = Neural Network 10HU
 Meta path = Ids => Part => Neural10
 Notes =

Node=Neural Network 10HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	10	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	MISCLASSIFICATION	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 10HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 10HU Model Fit Statistics

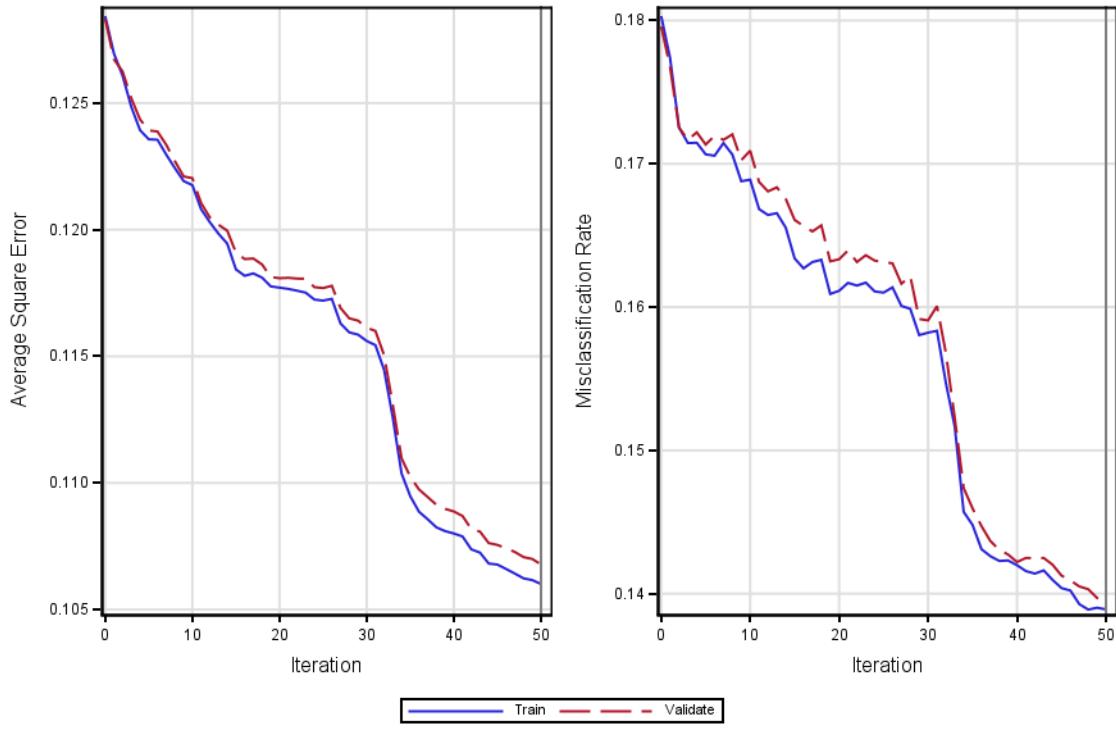
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	62470.00	.	.
Model Degrees of Freedom	861.00	.	.
Number of Estimated Weights	861.00	.	.

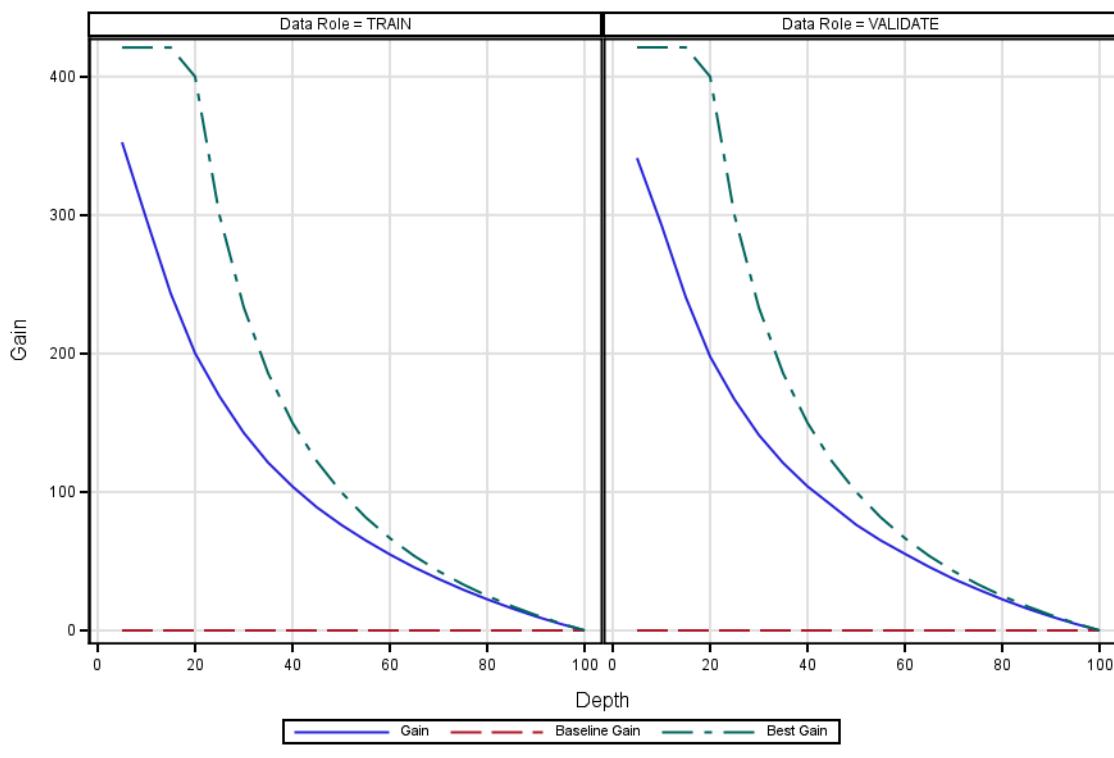
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	45723.05	.	.
Schwarz's Bayesian Criterion	53520.38	.	.
Average Squared Error	0.11	0.11	0.11
Maximum Absolute Error	1.00	1.00	1.00
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.33	0.33	0.33
Sum of Squared Errors	13427.22	4508.28	4526.32
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.11	.	.
Mean Squared Error	0.11	0.11	0.11
Root Final Prediction Error	0.33	.	.
Root Mean Squared Error	0.33	0.33	0.33
Average Error Function	0.35	0.35	0.35
Error Function	44001.05	14730.08	14841.24
Misclassification Rate	0.14	0.14	0.14
Number of Wrong Classifications	8797.00	2944.00	2985.00

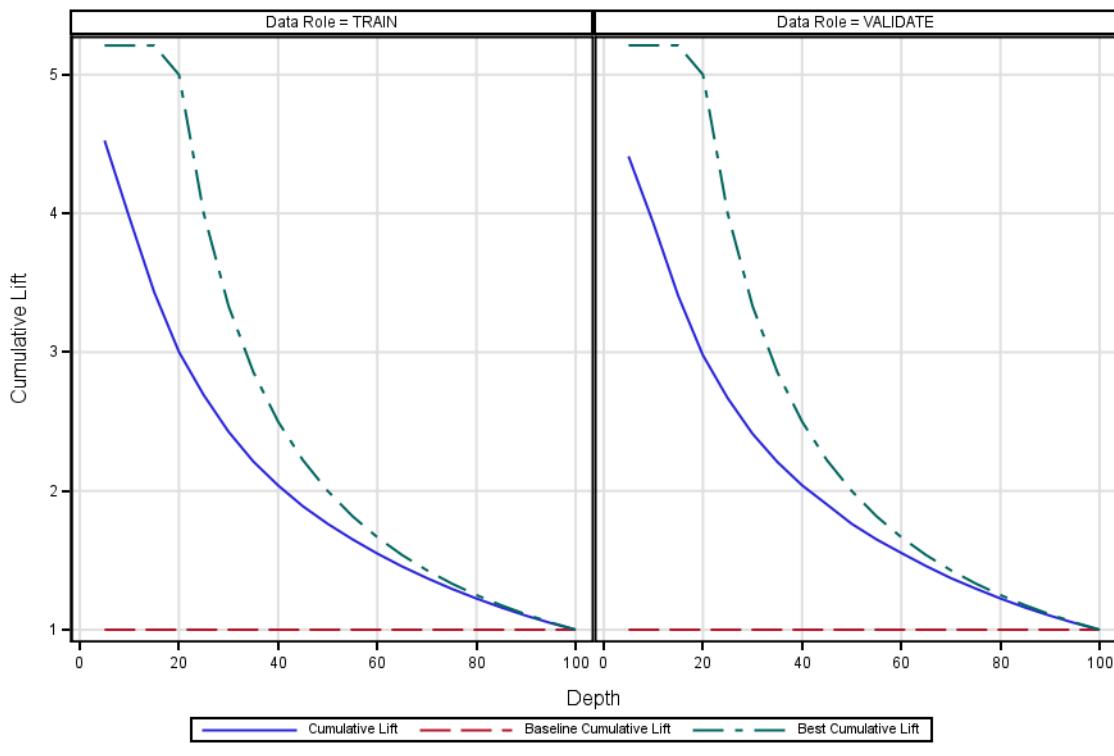
SAS Enterprise Miner Report
Node=Neural Network 10HU
Model Iteration Plots



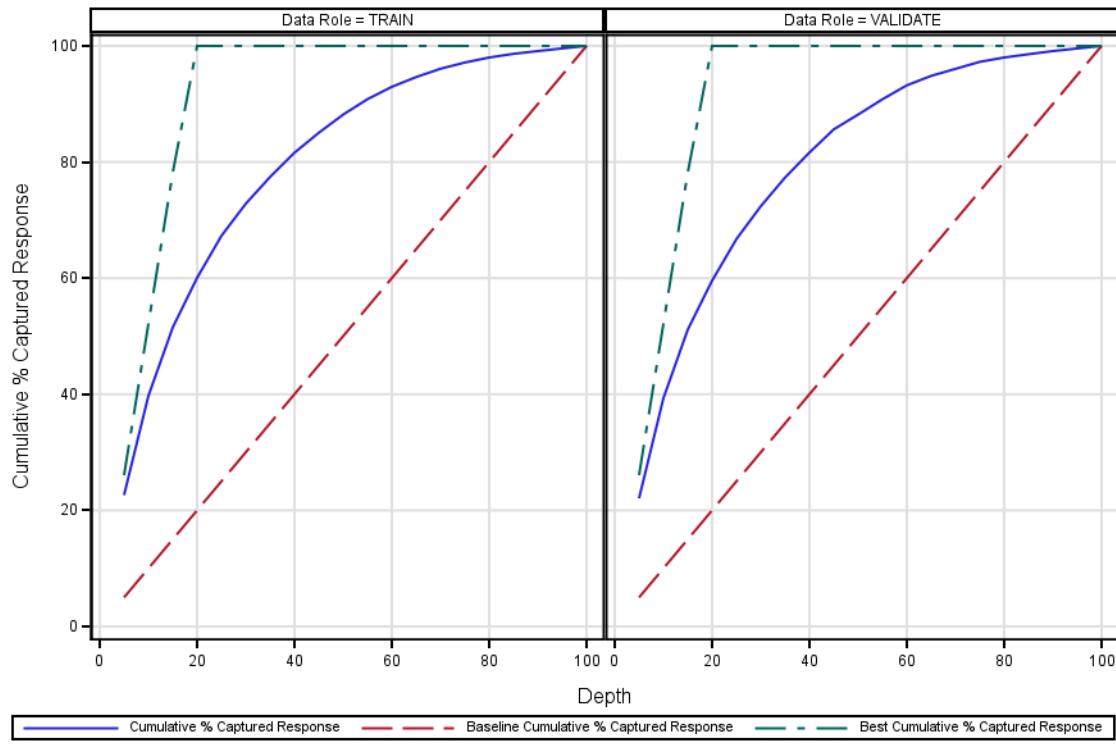
SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Model Assessment Scores where TARGET='score2'



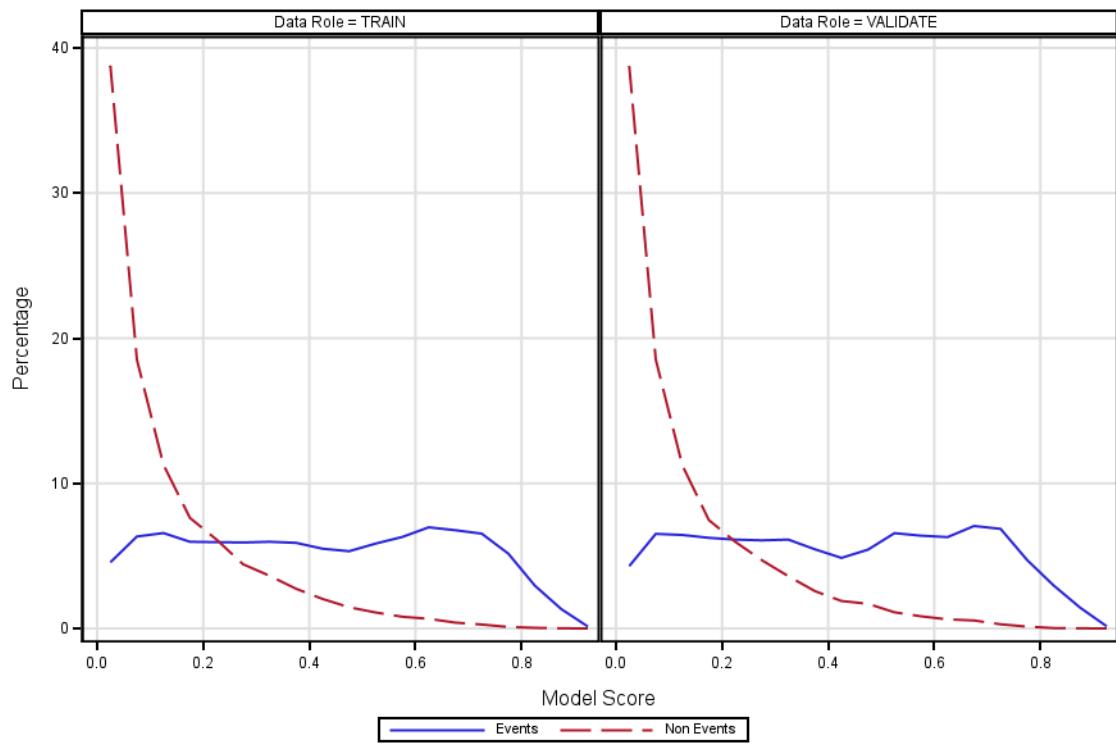
SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Model Assessment Scores where TARGET='score2'



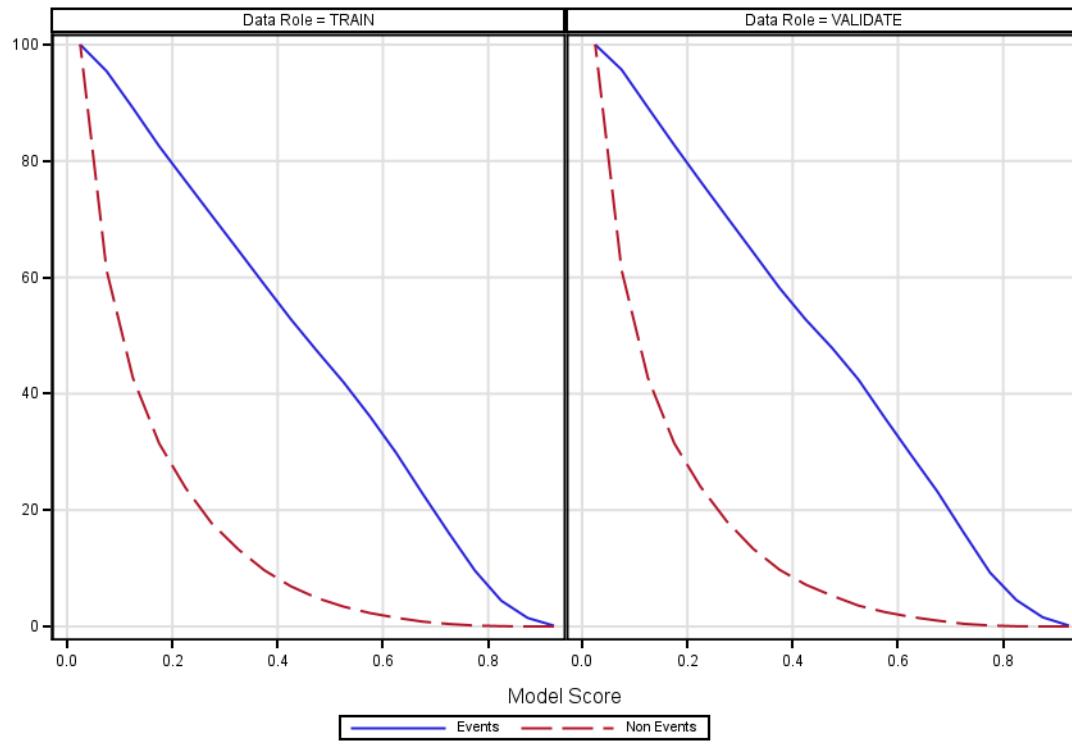
SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Model Assessment Scores where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Score Distributions where TARGET='score2'



SAS Enterprise Miner Report
 Node=Neural Network 10HU
 Score Distributions where TARGET='score2'



Node=Neural Network 10HU

Score Distributions

Target Variable=score2 Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	16	0.13163	0.0000	0.132	0.000
0.85-0.90	162	1.33278	0.0117	1.464	0.012
0.80-0.85	359	2.95352	0.0449	4.418	0.057
0.75-0.80	627	5.15837	0.1036	9.576	0.160
0.70-0.75	794	6.53229	0.2716	16.109	0.432
0.65-0.70	823	6.77088	0.4045	22.879	0.836
0.60-0.65	847	6.96833	0.6663	29.848	1.503
0.55-0.60	766	6.30193	0.8090	36.150	2.312
0.50-0.55	711	5.84944	1.1021	41.999	3.414
0.45-0.50	647	5.32291	1.4616	47.322	4.875
0.40-0.45	668	5.49568	2.0322	52.818	6.908
0.35-0.40	717	5.89881	2.7357	58.717	9.643
0.30-0.35	726	5.97285	3.6306	64.689	13.274
0.25-0.30	720	5.92349	4.4259	70.613	17.700
0.20-0.25	723	5.94817	6.1259	76.561	23.826
0.15-0.20	726	5.97285	7.6149	82.534	31.441
0.10-0.15	799	6.57343	11.2807	89.107	42.721
0.05-0.10	770	6.33484	18.5087	95.442	61.230
0.00-0.05	554	4.55780	38.7701	100.000	100.000

Target Variable=score2 Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.90-0.95	6	0.14811	0.0000	0.148	0.000
0.85-0.90	58	1.43175	0.0117	1.580	0.012
0.80-0.85	120	2.96223	0.0293	4.542	0.041
0.75-0.80	191	4.71489	0.1290	9.257	0.170
0.70-0.75	278	6.86250	0.2872	16.119	0.457
0.65-0.70	286	7.05999	0.5510	23.179	1.008
0.60-0.65	255	6.29474	0.6272	29.474	1.636
0.55-0.60	259	6.39348	0.8383	35.868	2.474
0.50-0.55	266	6.56628	1.1138	42.434	3.588
0.45-0.50	220	5.43076	1.7000	47.865	5.288
0.40-0.45	197	4.86300	1.8934	52.728	7.181
0.35-0.40	221	5.45544	2.5734	58.183	9.754
0.30-0.35	248	6.12195	3.5993	64.305	13.354
0.25-0.30	246	6.07257	4.7013	70.378	18.055
0.20-0.25	248	6.12195	5.9675	76.500	24.023
0.15-0.20	253	6.24537	7.4741	82.745	31.497
0.10-0.15	261	6.44285	11.2433	89.188	42.740
0.05-0.10	264	6.51691	18.5239	95.705	61.264
0.00-0.05	174	4.29524	38.7362	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 7HU Summary

Node id = Neural9
 Node label = Neural Network 7HU
 Meta path = Ids => Part => Neural9
 Notes =

Node=Neural Network 7HU Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	NeuralNetwork		Hidden	7	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	MISCLASSIFICATION	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 7HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 7HU Model Fit Statistics

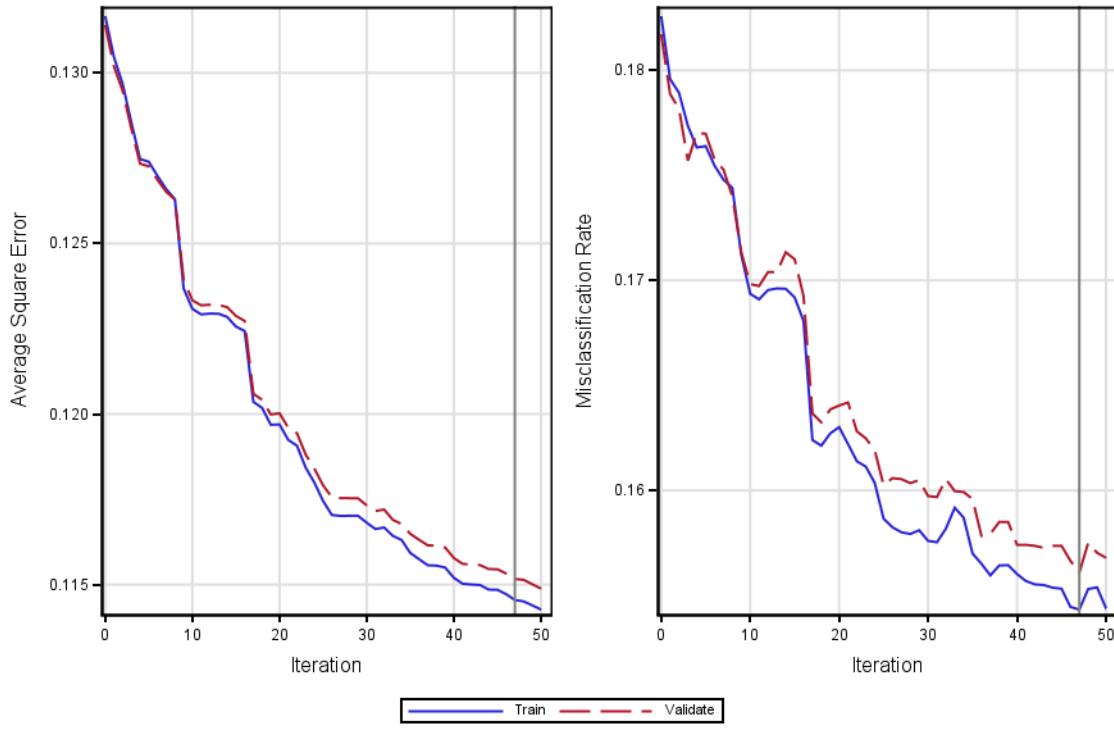
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	62728.00	.	.
Model Degrees of Freedom	603.00	.	.
Number of Estimated Weights	603.00	.	.

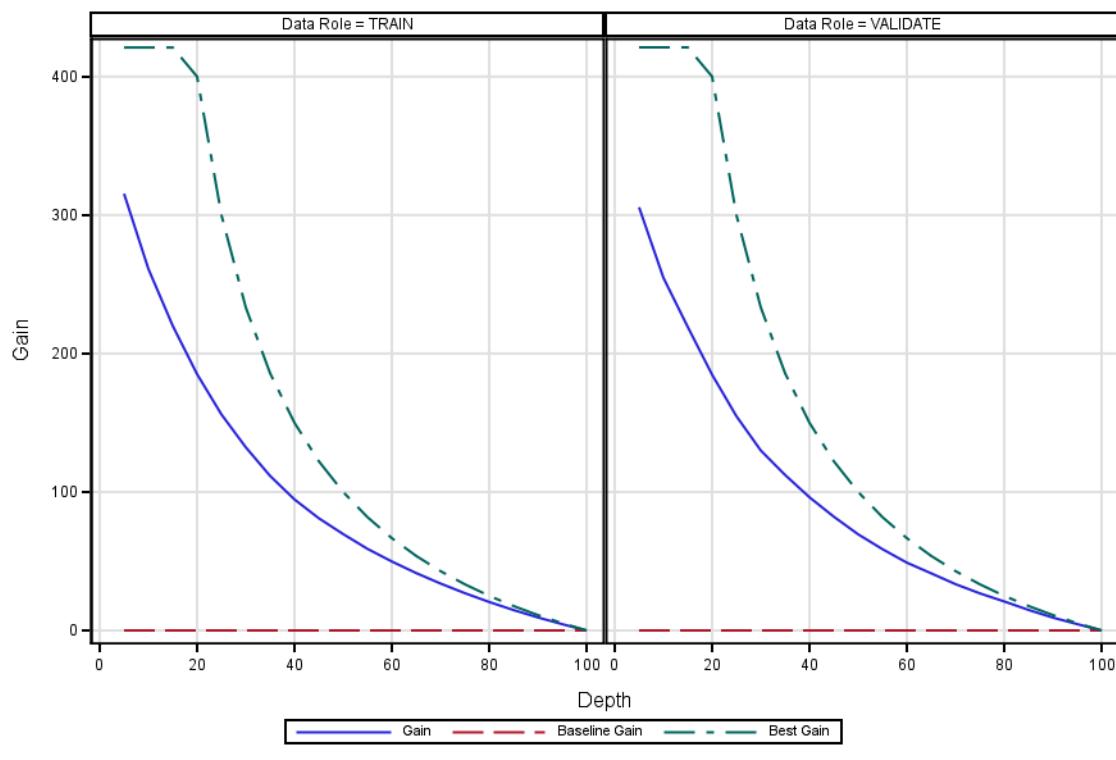
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	48479.45	.	.
Schwarz's Bayesian Criterion	53940.29	.	.
Average Squared Error	0.11	0.12	0.12
Maximum Absolute Error	0.99	0.99	0.99
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.34	0.34	0.34
Sum of Squared Errors	14508.99	4862.34	4875.15
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.12	.	.
Mean Squared Error	0.12	0.12	0.12
Root Final Prediction Error	0.34	.	.
Root Mean Squared Error	0.34	0.34	0.34
Average Error Function	0.37	0.37	0.38
Error Function	47273.45	15814.61	15890.35
Misclassification Rate	0.15	0.16	0.16
Number of Wrong Classifications	9774.00	3295.00	3289.00

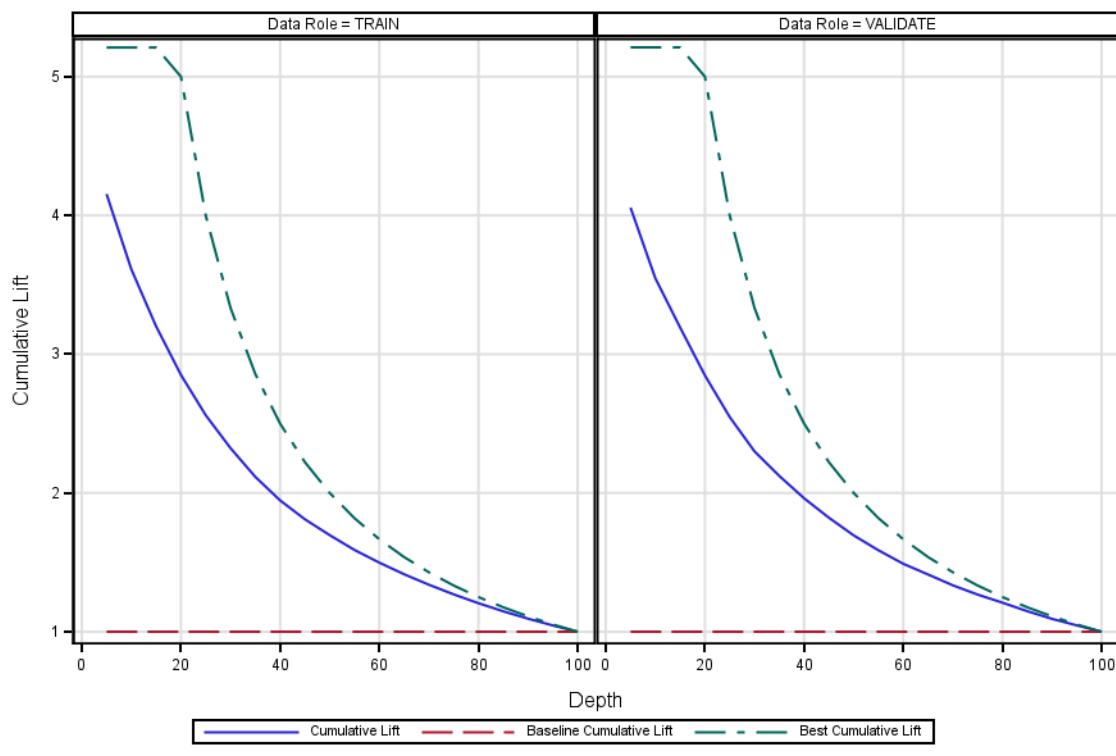
SAS Enterprise Miner Report
Node=Neural Network 7HU
Model Iteration Plots

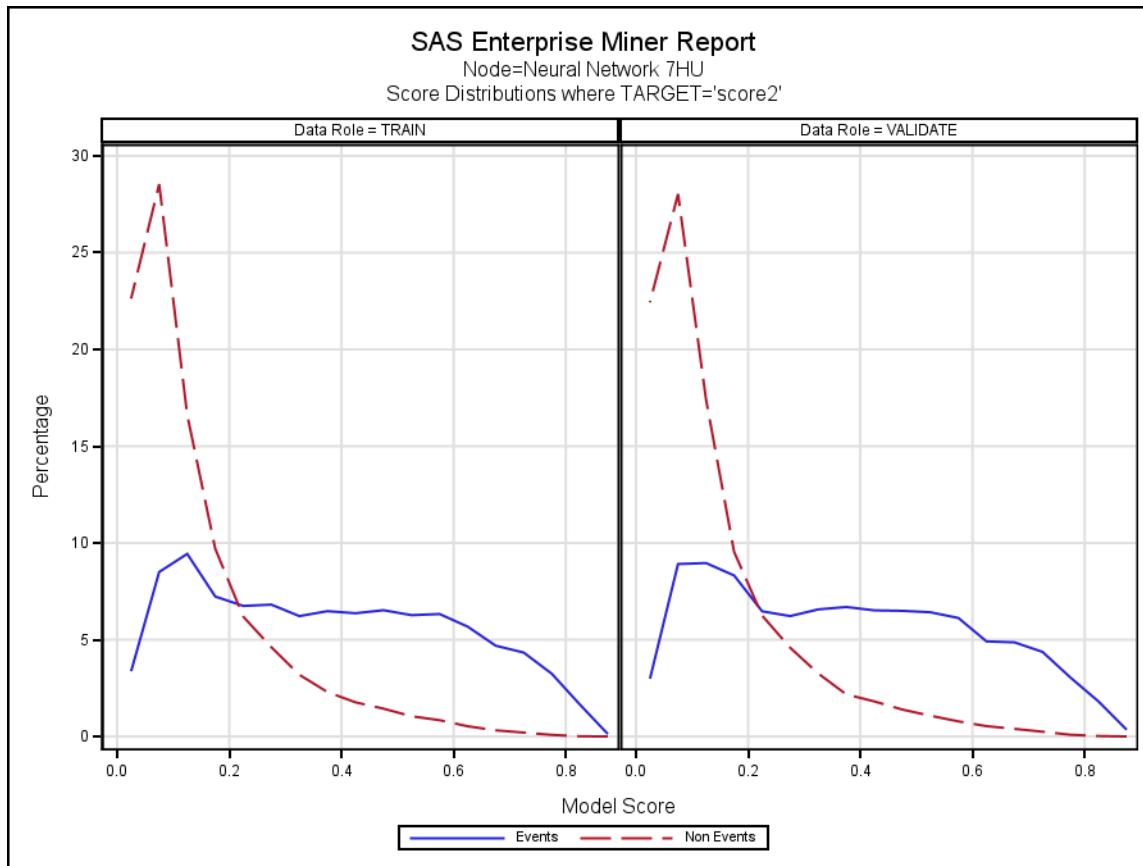
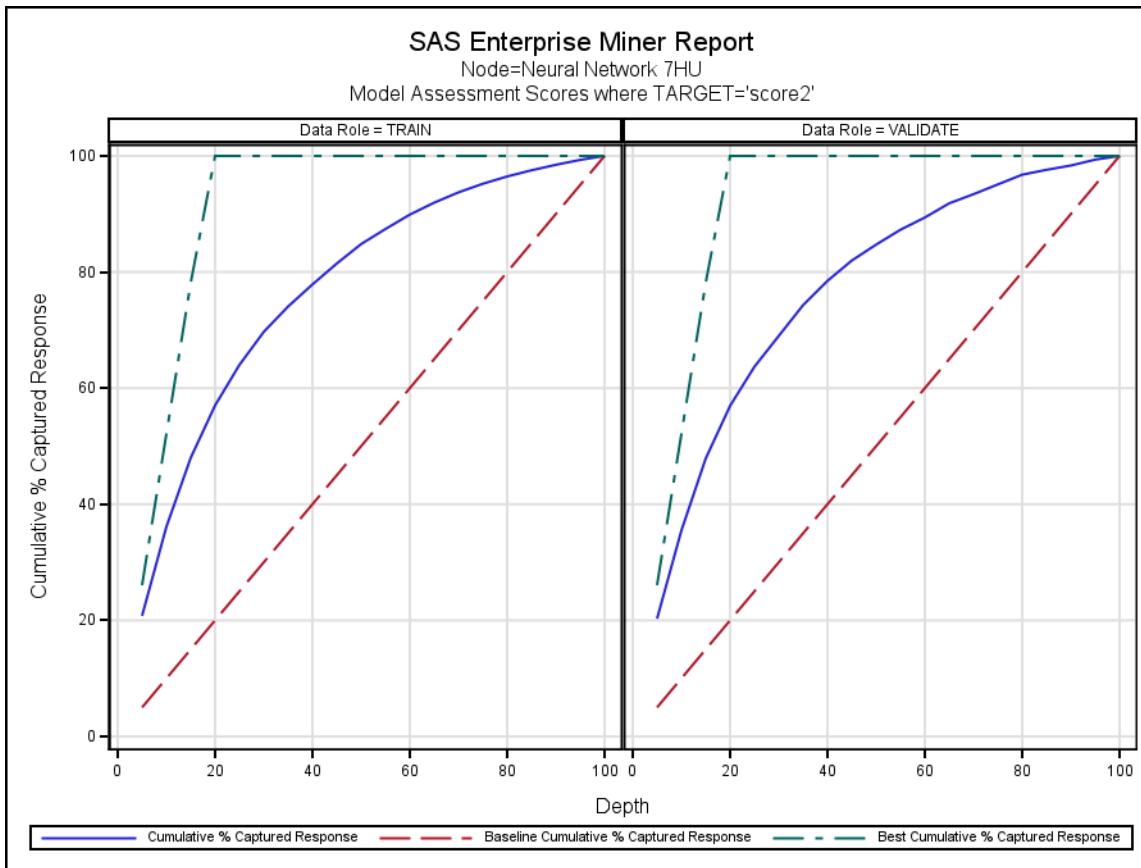


SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Model Assessment Scores where TARGET='score2'

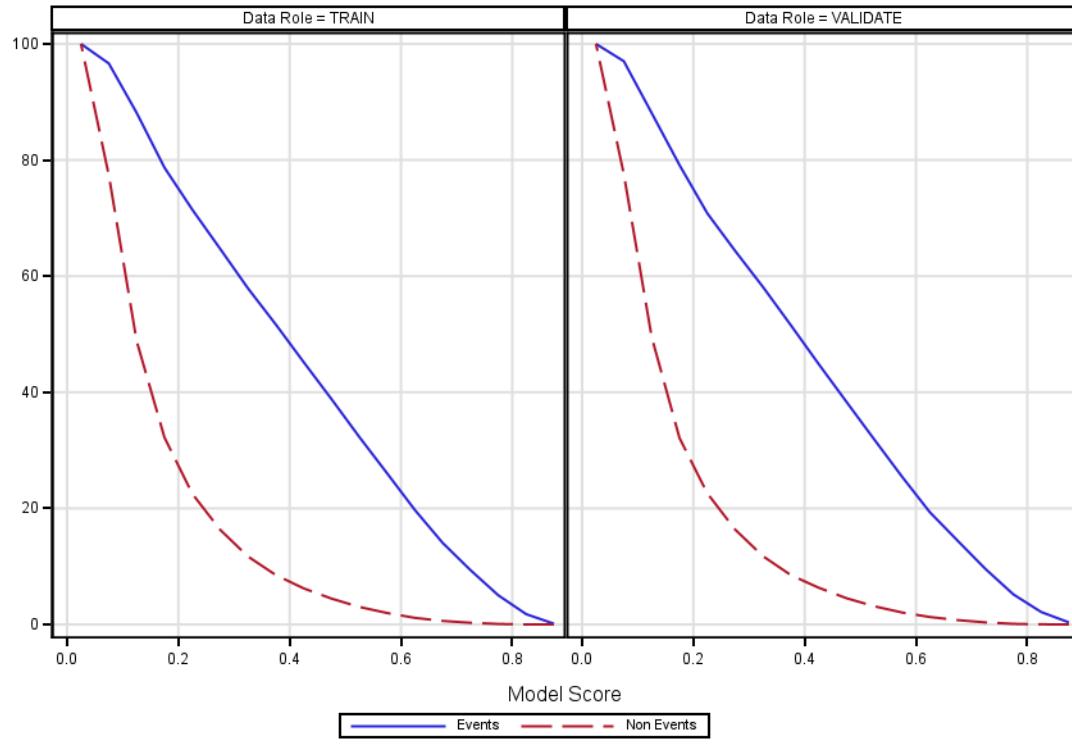


SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Model Assessment Scores where TARGET='score2'





SAS Enterprise Miner Report
 Node=Neural Network 7HU
 Score Distributions where TARGET='score2'



Node=Neural Network 7HU
Score Distributions

Target Variable=score2 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	15	0.12341	0.0000	0.123	0.000
0.80-0.85	201	1.65364	0.0098	1.777	0.010
0.75-0.80	394	3.24146	0.0821	5.019	0.092
0.70-0.75	527	4.33566	0.2013	9.354	0.293
0.65-0.70	570	4.68943	0.3166	14.044	0.610
0.60-0.65	690	5.67668	0.5276	19.720	1.137
0.55-0.60	769	6.32661	0.8422	26.047	1.979
0.50-0.55	762	6.26903	1.0435	32.316	3.023
0.45-0.50	793	6.52406	1.4362	38.840	4.459
0.40-0.45	774	6.36775	1.7645	45.208	6.224
0.35-0.40	787	6.47470	2.2980	51.682	8.522
0.30-0.35	756	6.21966	3.1870	57.902	11.709
0.25-0.30	828	6.81201	4.6135	64.714	16.322
0.20-0.25	820	6.74619	6.1884	71.460	22.511
0.15-0.20	879	7.23159	9.6979	78.692	32.208
0.10-0.15	1147	9.43645	16.6152	88.128	48.824
0.05-0.10	1033	8.49856	28.5407	96.627	77.364
0.00-0.05	410	3.37310	22.6356	100.000	100.000

Target Variable=score2 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	14	0.34559	0.0000	0.346	0.000
0.80-0.85	73	1.80202	0.0234	2.148	0.023
0.75-0.80	123	3.03629	0.0879	5.184	0.111
0.70-0.75	177	4.36929	0.2462	9.553	0.358
0.65-0.70	197	4.86300	0.3928	14.416	0.750
0.60-0.65	199	4.91237	0.5334	19.329	1.284
0.55-0.60	248	6.12195	0.7796	25.451	2.063
0.50-0.55	260	6.41817	1.0727	31.869	3.136
0.45-0.50	263	6.49222	1.3893	38.361	4.525
0.40-0.45	264	6.51691	1.8114	44.878	6.337
0.35-0.40	271	6.68971	2.1748	51.568	8.512
0.30-0.35	266	6.56628	3.2534	58.134	11.765
0.25-0.30	252	6.22069	4.5841	64.354	16.349
0.20-0.25	262	6.46754	6.2430	70.822	22.592
0.15-0.20	337	8.31893	9.5375	79.141	32.130
0.10-0.15	363	8.96075	17.3984	88.102	49.528
0.05-0.10	361	8.91138	28.0321	97.013	77.560
0.00-0.05	121	2.98692	22.4398	100.000	100.000

SAS Enterprise Miner Report

Node=Neural Network 3HU Summary

Node id = Neural
 Node label = Neural Network 3HU
 Meta path = Ids => Part => Neural
 Notes =

Node=Neural Network 3HU 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	MISCLASSIFICATION	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 3HU Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
INPUT	INTERVAL	18	PRECTOT PS QV2M T2M T2MDEW T2MWET T2M_MAX T2M_MIN T2M_RANGE TS WS10M WS10M_MAX WS10M_MIN WS10M_RANGE WS50M WS50M_MAX WS50M_MIN WS50M_RANGE
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Neural Network 3HU Model Fit Statistics

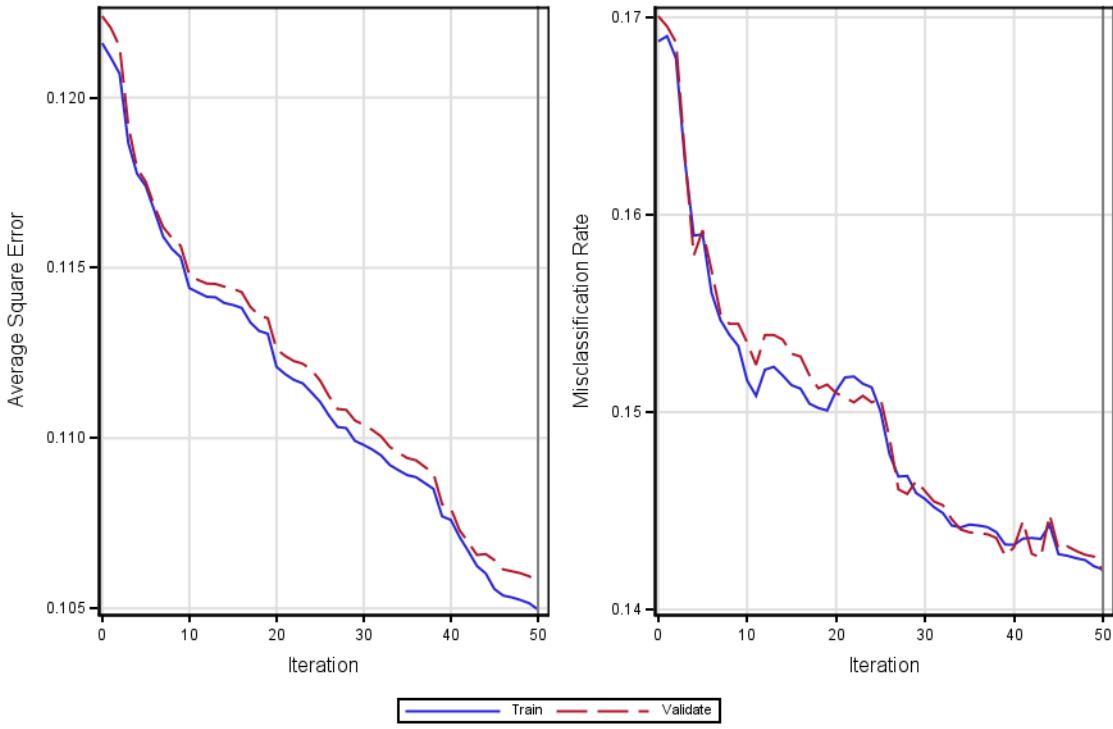
Target=score2 Target Label=score2

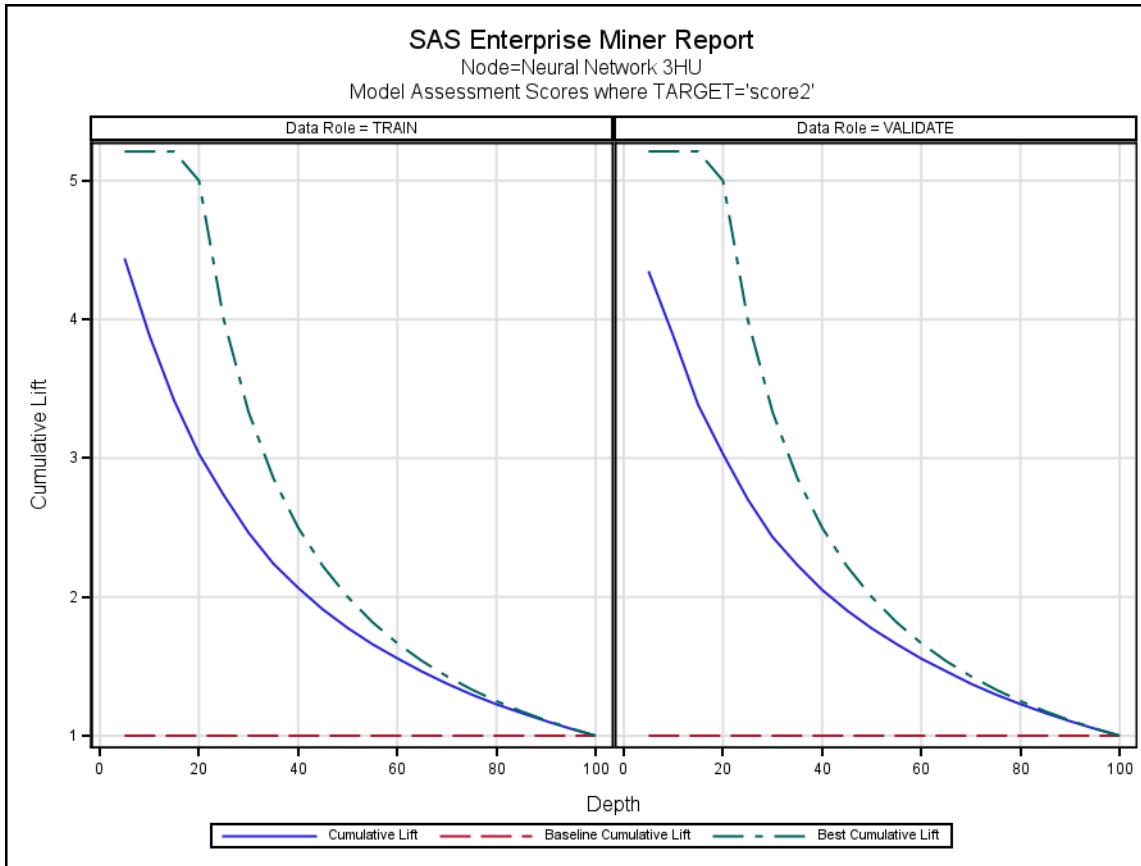
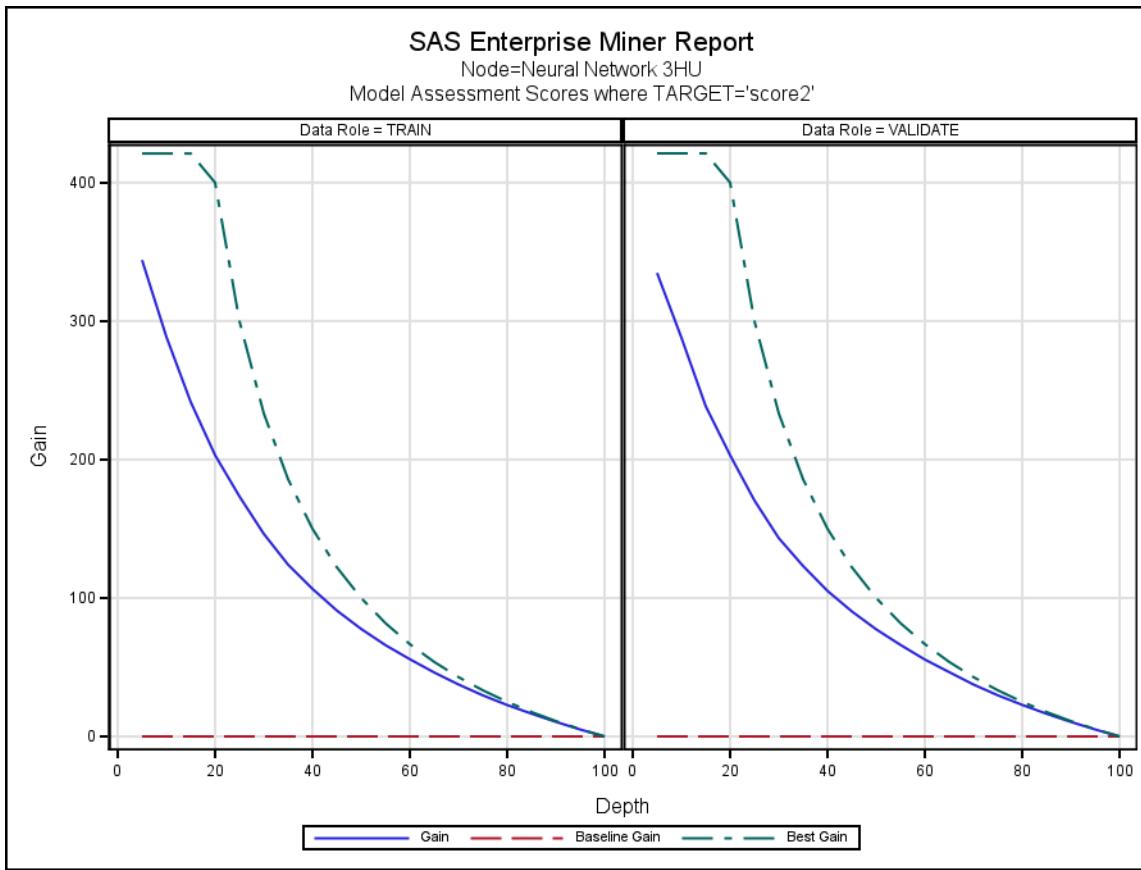
Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	63331.00	.	.
Degrees of Freedom for Error	63072.00	.	.
Model Degrees of Freedom	259.00	.	.
Number of Estimated Weights	259.00	.	.

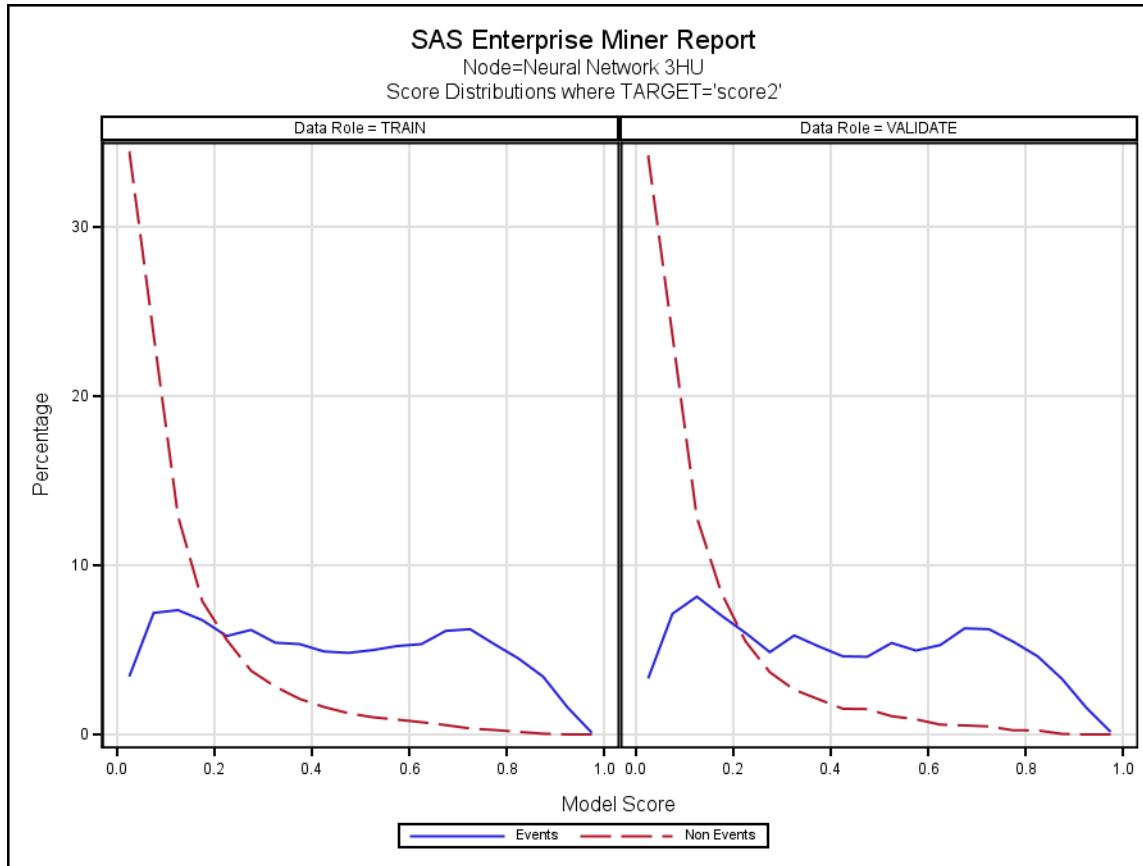
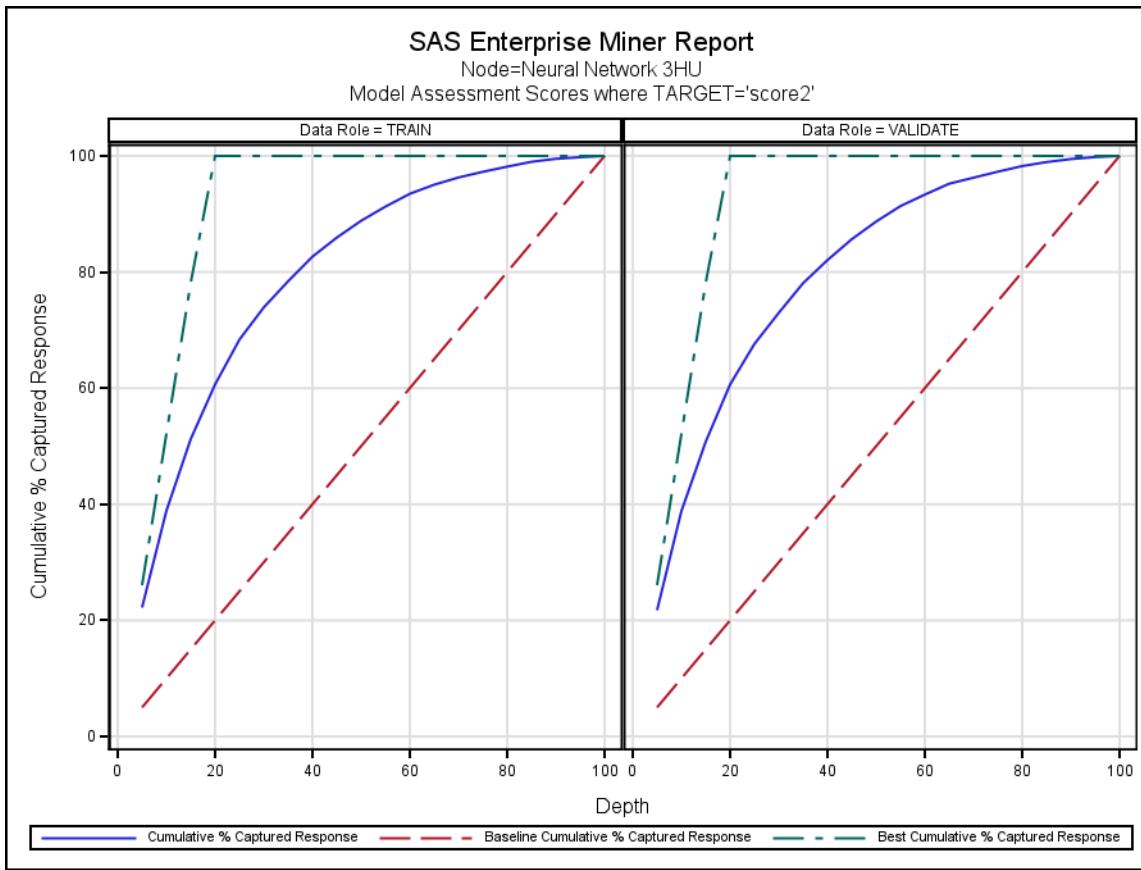
Target=score2 Target Label=score2

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	43850.74	.	.
Schwarz's Bayesian Criterion	46196.28	.	.
Average Squared Error	0.10	0.11	0.11
Maximum Absolute Error	1.00	1.00	1.00
Divisor for ASE	126662.00	42220.00	42224.00
Sum of Frequencies	63331.00	21110.00	21112.00
Root Average Squared Error	0.32	0.33	0.33
Sum of Squared Errors	13295.18	4465.52	4474.97
Sum of Case Weights Times Freq	126662.00	42220.00	42224.00
Final Prediction Error	0.11	.	.
Mean Squared Error	0.11	0.11	0.11
Root Final Prediction Error	0.33	.	.
Root Mean Squared Error	0.32	0.33	0.33
Average Error Function	0.34	0.34	0.35
Error Function	43332.74	14536.66	14579.49
Misclassification Rate	0.14	0.14	0.14
Number of Wrong Classifications	8995.00	2996.00	3051.00

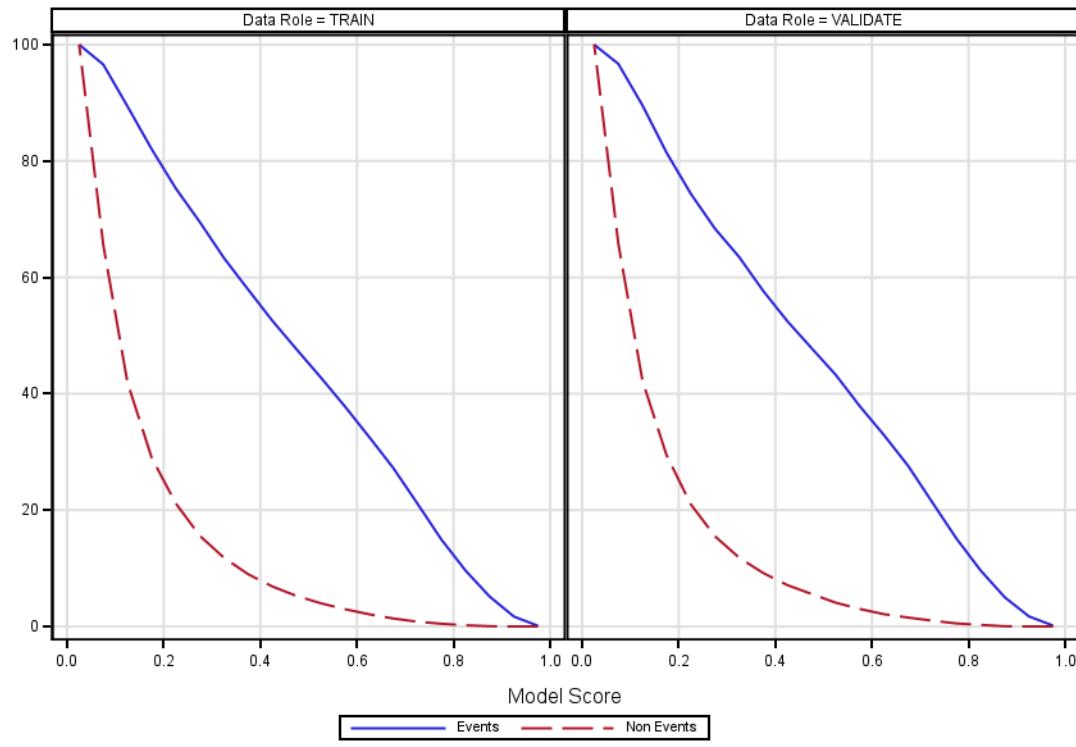
SAS Enterprise Miner Report
Node=Neural Network 3HU
Model Iteration Plots







SAS Enterprise Miner Report
 Node=Neural Network 3HU
 Score Distributions where TARGET='score2'



Node=Neural Network 3HU
Score Distributions

Target Variable=score2 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	12	0.09872	0.0000	0.099	0.000
0.90-0.95	195	1.60428	0.0039	1.703	0.004
0.85-0.90	415	3.41423	0.0469	5.117	0.051
0.80-0.85	544	4.47552	0.1544	9.593	0.205
0.75-0.80	648	5.33114	0.2638	14.924	0.469
0.70-0.75	756	6.21966	0.3517	21.144	0.821
0.65-0.70	744	6.12094	0.5530	27.265	1.374
0.60-0.65	649	5.33937	0.7249	32.604	2.099
0.55-0.60	635	5.22419	0.8774	37.828	2.976
0.50-0.55	606	4.98560	1.0181	42.814	3.994
0.45-0.50	586	4.82106	1.2545	47.635	5.249
0.40-0.45	596	4.90333	1.6219	52.538	6.870
0.35-0.40	649	5.33937	2.1006	57.877	8.971
0.30-0.35	659	5.42164	2.8197	63.299	11.791
0.25-0.30	751	6.17853	3.7693	69.478	15.560
0.20-0.25	707	5.81654	5.5944	75.294	21.154
0.15-0.20	821	6.75442	7.8728	82.049	29.027
0.10-0.15	893	7.34677	12.9045	89.395	41.932
0.05-0.10	873	7.18223	23.6107	96.578	65.542
0.00-0.05	416	3.42246	34.4576	100.000	100.000

Target Variable=score2 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	6	0.14811	0.0000	0.148	0.000
0.90-0.95	64	1.57986	0.0000	1.728	0.000
0.85-0.90	133	3.28314	0.0352	5.011	0.035
0.80-0.85	187	4.61614	0.2403	9.627	0.276
0.75-0.80	222	5.48013	0.2462	15.107	0.522
0.70-0.75	252	6.22069	0.4748	21.328	0.997
0.65-0.70	254	6.27006	0.5334	27.598	1.530
0.60-0.65	214	5.28265	0.5803	32.881	2.110
0.55-0.60	201	4.96174	0.8969	37.843	3.007
0.50-0.55	219	5.40607	1.0786	43.249	4.086
0.45-0.50	186	4.59146	1.5007	47.840	5.586
0.40-0.45	187	4.61614	1.5183	52.456	7.105
0.35-0.40	211	5.20859	2.0810	57.665	9.186
0.30-0.35	237	5.85041	2.6438	63.515	11.830
0.25-0.30	197	4.86300	3.6755	68.378	15.505
0.20-0.25	243	5.99852	5.4986	74.377	21.004
0.15-0.20	285	7.03530	8.4003	81.412	29.404
0.10-0.15	330	8.14614	12.8202	89.558	42.224
0.05-0.10	289	7.13404	23.5711	96.692	65.795
0.00-0.05	134	3.30783	34.2048	100.000	100.000

SAS Enterprise Miner Report

Node=Model Comparison Desicion Tree Summary

Node id = MdlComp
 Node label = Model Comparison Desicion Tree
 Meta path = Ids => Part => Tree3 => MdlComp
 Notes =

Node=Model Comparison Desicion Tree 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Decision Tree B4D16		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree3		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison Desicion Tree Variable Summary

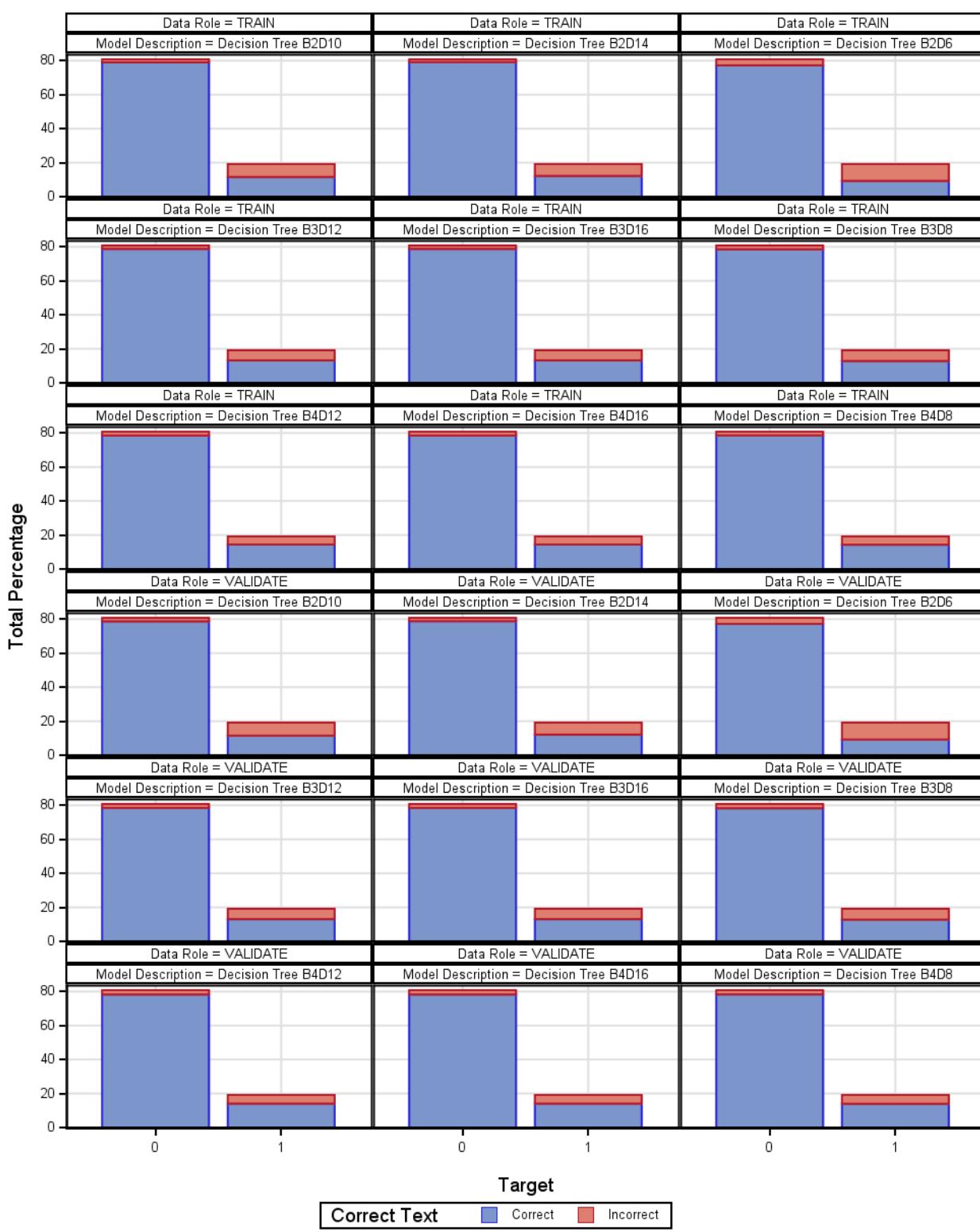
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison Desicion Tree 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	Tree3	Tree3	Decision Tree B4D16	score2	score2	0.07669	0.05400	0.07066	0.786
	Tree43	Tree43	Decision Tree B4D12	score2	score2	0.07669	0.05400	0.07066	0.786
	Tree42	Tree42	Decision Tree B4D8	score2	score2	0.07736	0.05466	0.07131	0.781
	Tree39	Tree39	Decision Tree B3D12	score2	score2	0.08441	0.06207	0.07980	0.739
	Tree40	Tree40	Decision Tree B3D16	score2	score2	0.08441	0.06207	0.07980	0.739
	Tree2	Tree2	Decision Tree B3D8	score2	score2	0.08972	0.06681	0.08621	0.723
	Tree23	Tree23	Decision Tree B2D14	score2	score2	0.09072	0.06852	0.08636	0.694
	Tree12	Tree12	Decision Tree B2D10	score2	score2	0.09787	0.07520	0.09428	0.656
	Tree	Tree	Decision Tree B2D6	score2	score2	0.13553	0.10349	0.13483	0.558

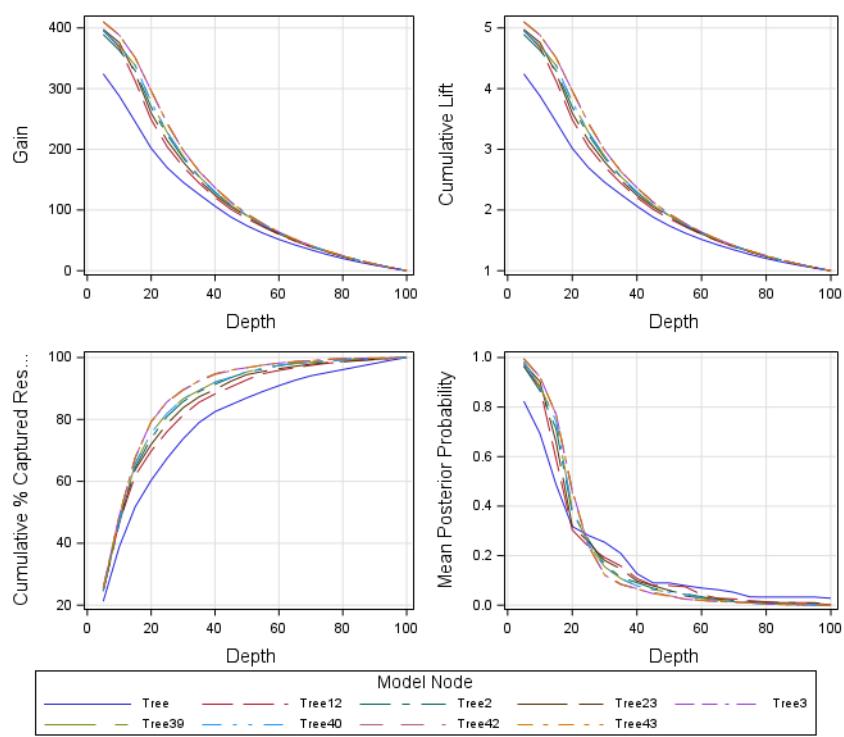
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Tree3	Tree3	Decision Tree B4D16	score2	score2	0.07669	0.05870	0.07669	0.769
	Tree43	Tree43	Decision Tree B4D12	score2	score2	0.07669	0.05870	0.07669	0.769
	Tree42	Tree42	Decision Tree B4D8	score2	score2	0.07736	0.05930	0.07736	0.765
	Tree39	Tree39	Decision Tree B3D12	score2	score2	0.08441	0.06560	0.08441	0.731
	Tree40	Tree40	Decision Tree B3D16	score2	score2	0.08441	0.06560	0.08441	0.731
	Tree2	Tree2	Decision Tree B3D8	score2	score2	0.08972	0.06951	0.08972	0.718
	Tree23	Tree23	Decision Tree B2D14	score2	score2	0.09072	0.07220	0.09072	0.687
	Tree12	Tree12	Decision Tree B2D10	score2	score2	0.09787	0.07755	0.09787	0.657
	Tree	Tree	Decision Tree B2D6	score2	score2	0.13553	0.10360	0.13553	0.561

SAS Enterprise Miner Report
Node=Model Comparison Desicion Tree
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



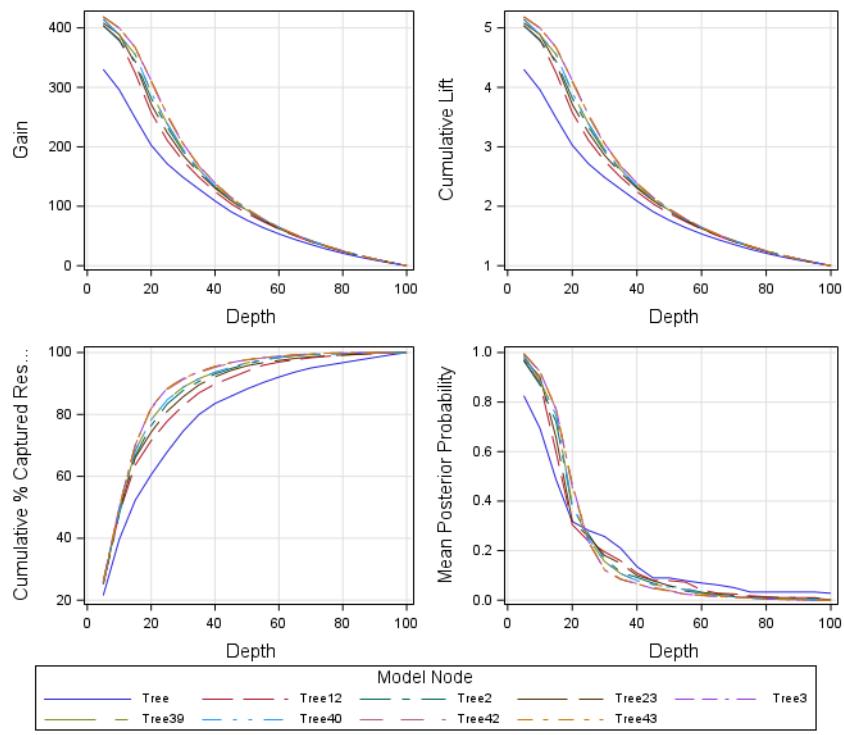
SAS Enterprise Miner Report

Node=Model Comparison Decision Tree
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



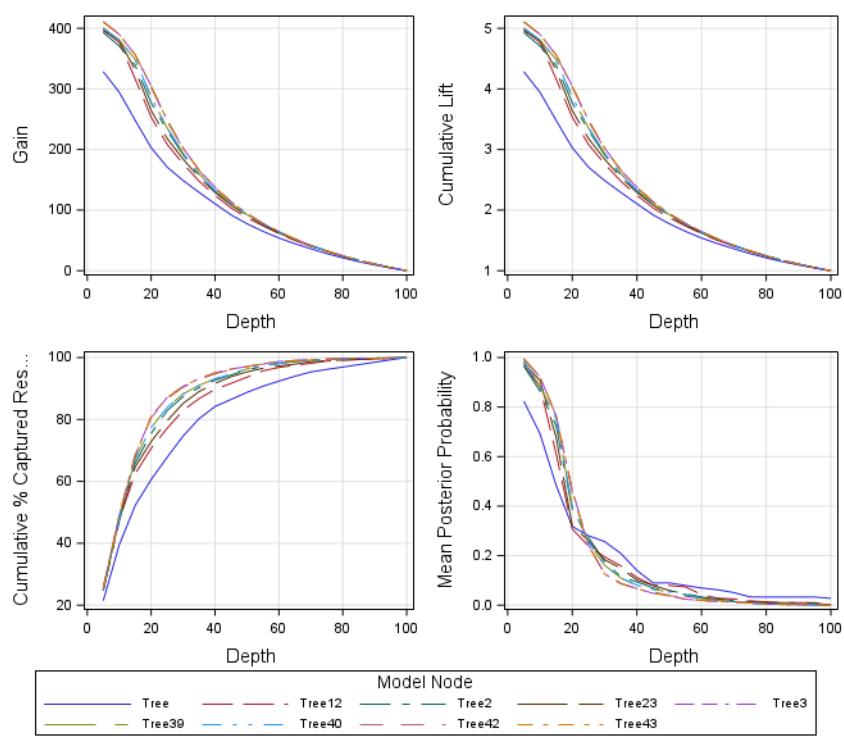
SAS Enterprise Miner Report

Node=Model Comparison Decision Tree
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'

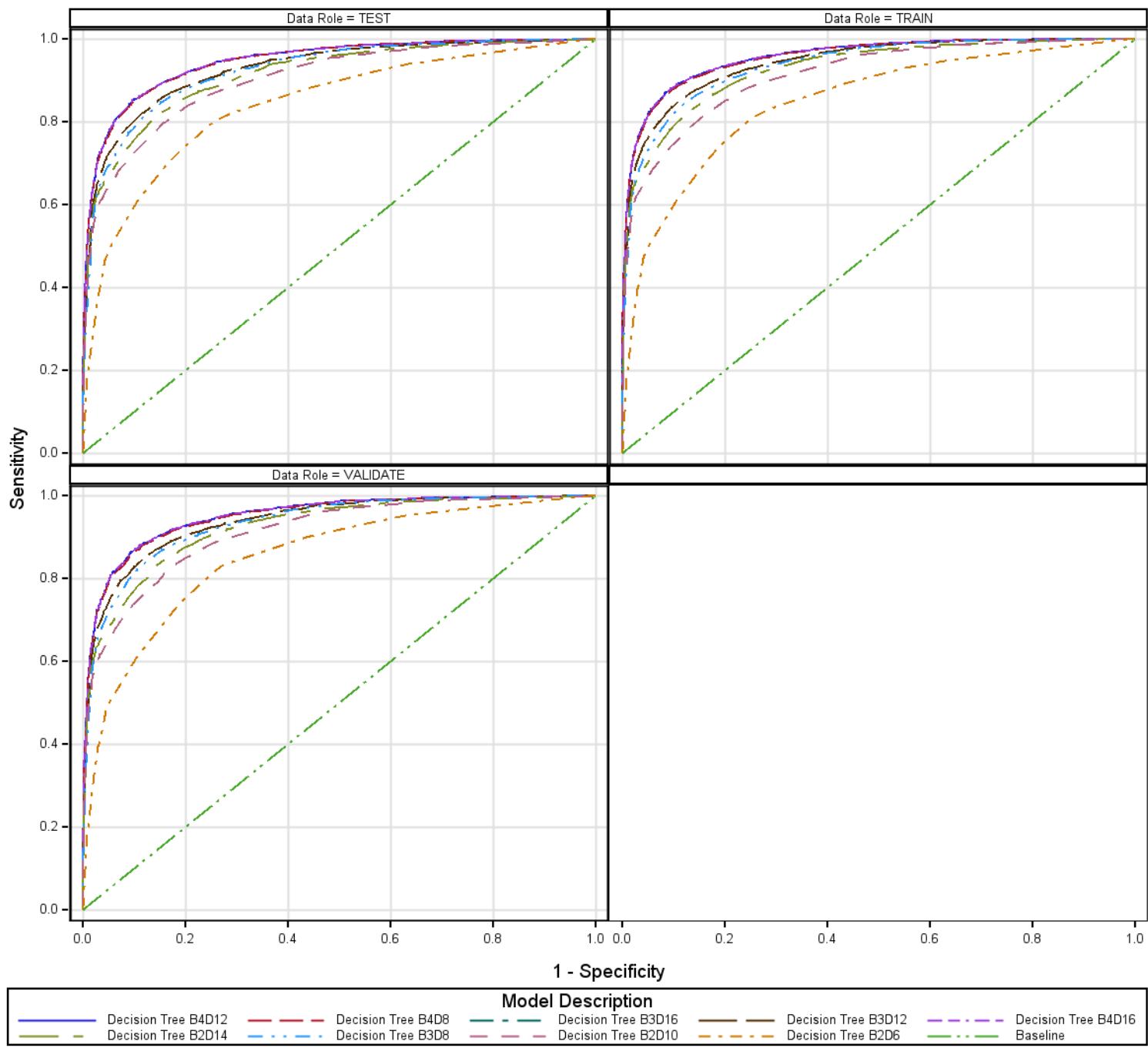


SAS Enterprise Miner Report

Node=Model Comparison Desicion Tree
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'



SAS Enterprise Miner Report
 Node=Model Comparison Desicion Tree
 ROC Chart
 TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Model Comparison Regression Summary

Node id = MdlComp12
 Node label = Model Comparison Regression
 Meta path = Ids => Part => Reg10 => MdlComp12
 Notes =

Node=Model Comparison Regression 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Regression Backward		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Reg10		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison Regression Variable Summary

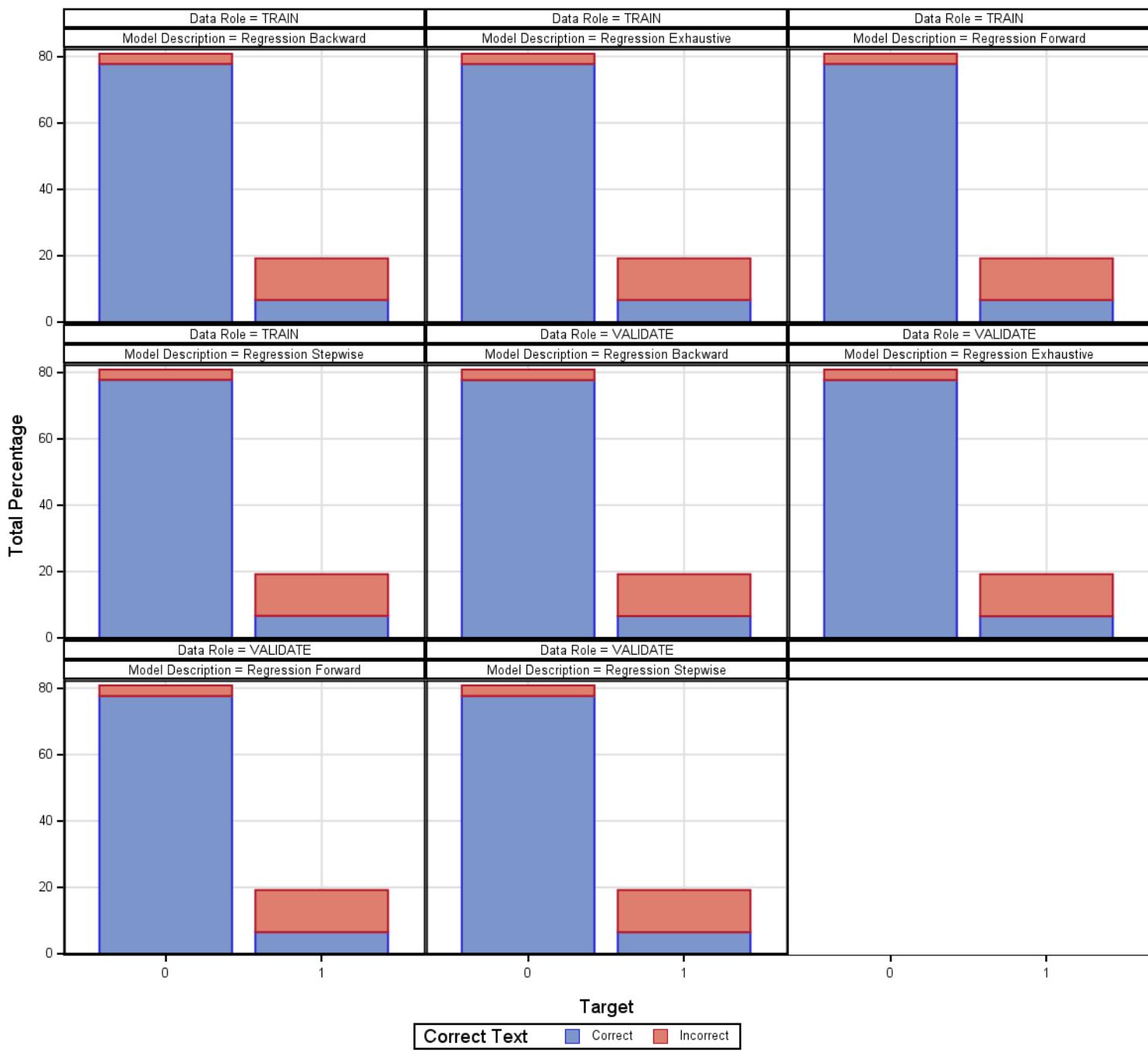
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison Regression 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	Reg10	Reg10	Regression Backward	score2	score2	0.15784	0.11563	0.15588	0.481
	Reg	Reg	Regression Exhaustive	score2	score2	0.15803	0.11561	0.15599	0.482
	Reg11	Reg11	Regression Stepwise	score2	score2	0.15860	0.11566	0.15604	0.481
	Reg9	Reg9	Regression Forward	score2	score2	0.15860	0.11566	0.15602	0.481

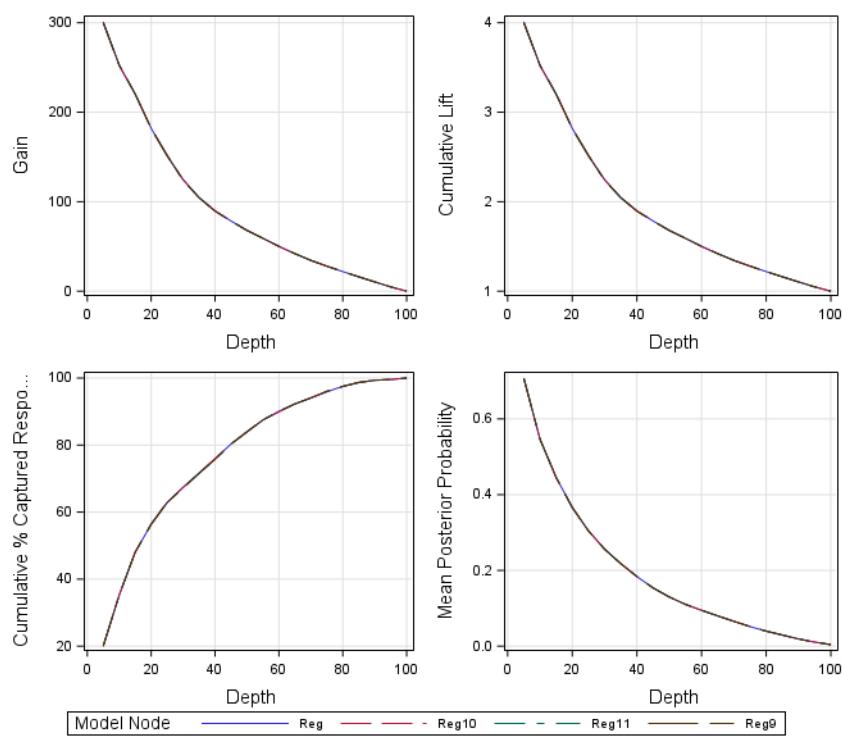
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Reg10	Reg10	Regression Backward	score2	score2	0.15784	0.11596	0.15784	0.476
	Reg	Reg	Regression Exhaustive	score2	score2	0.15803	0.11589	0.15803	0.476
	Reg11	Reg11	Regression Stepwise	score2	score2	0.15860	0.11599	0.15860	0.476
	Reg9	Reg9	Regression Forward	score2	score2	0.15860	0.11599	0.15860	0.476

SAS Enterprise Miner Report
Node=Model Comparison Regression
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



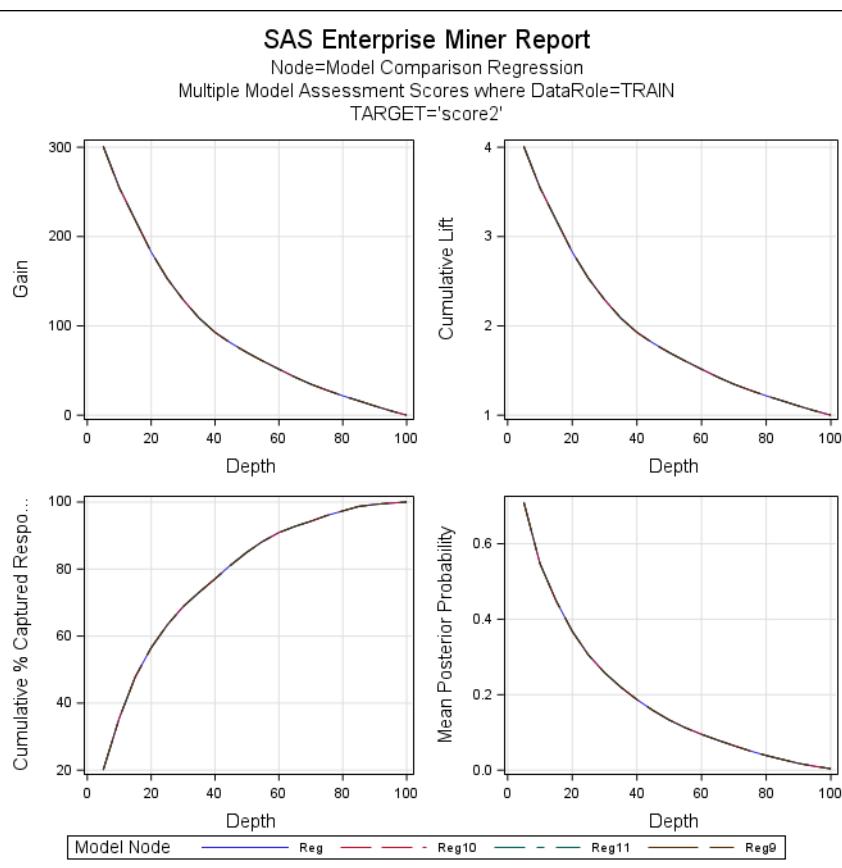
SAS Enterprise Miner Report

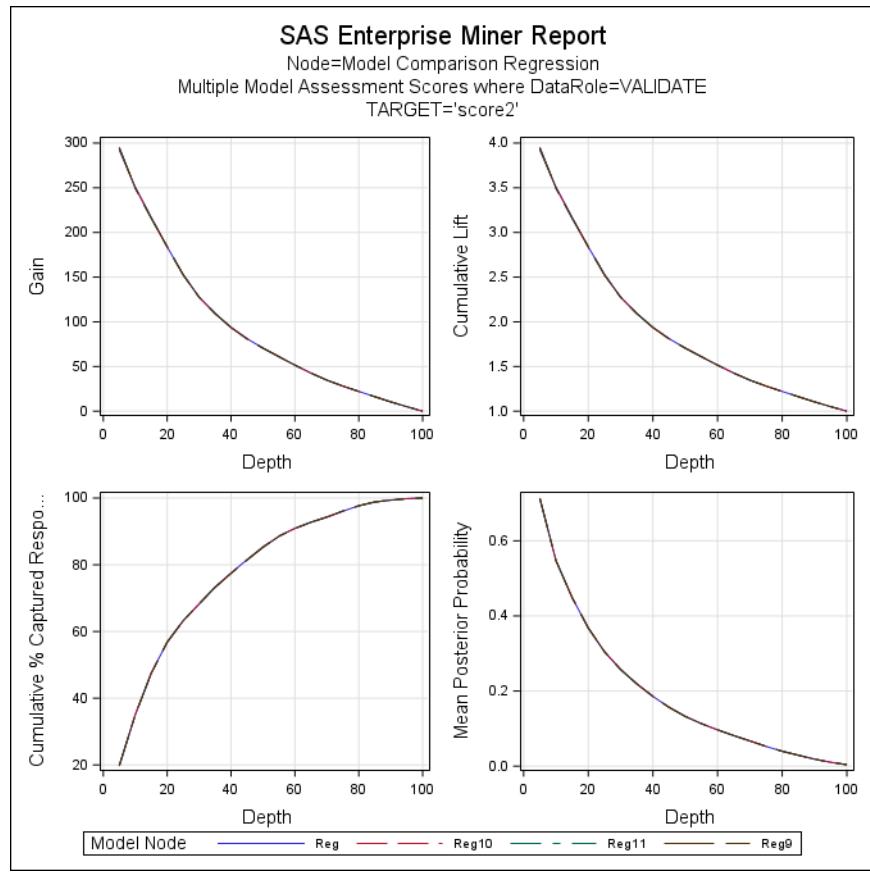
Node=Model Comparison Regression
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



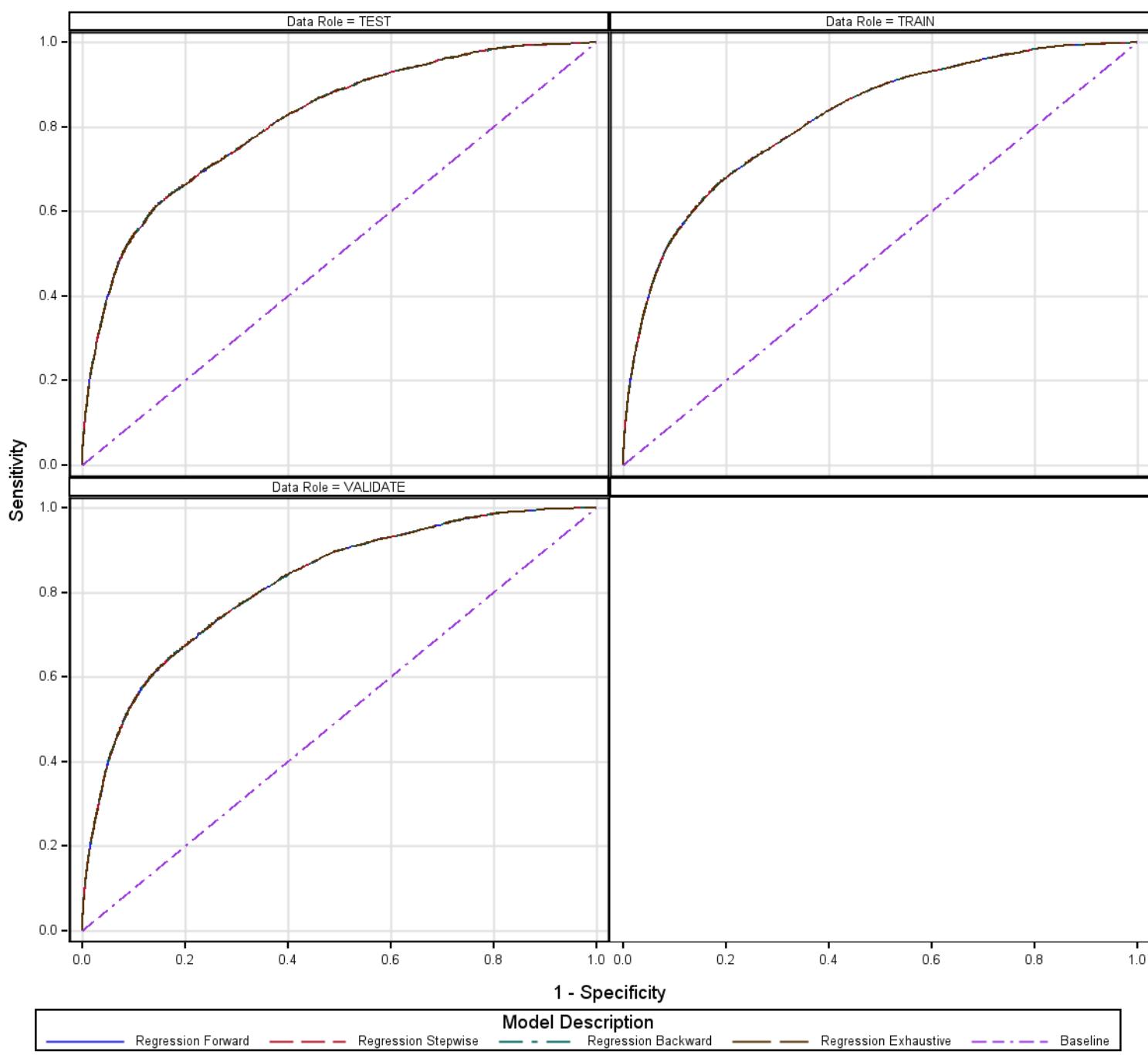
SAS Enterprise Miner Report

Node=Model Comparison Regression
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'





SAS Enterprise Miner Report
Node=Model Comparison Regression
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Model Comparison NeuralNet Summary

Node id = MdlComp13
 Node label = Model Comparison NeuralNet
 Meta path = Ids => Part => Neural10 => MdlComp13
 Notes =

Node=Model Comparison NeuralNet 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Neural Network 10HU		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Neural10		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Model Comparison NeuralNet Variable Summary

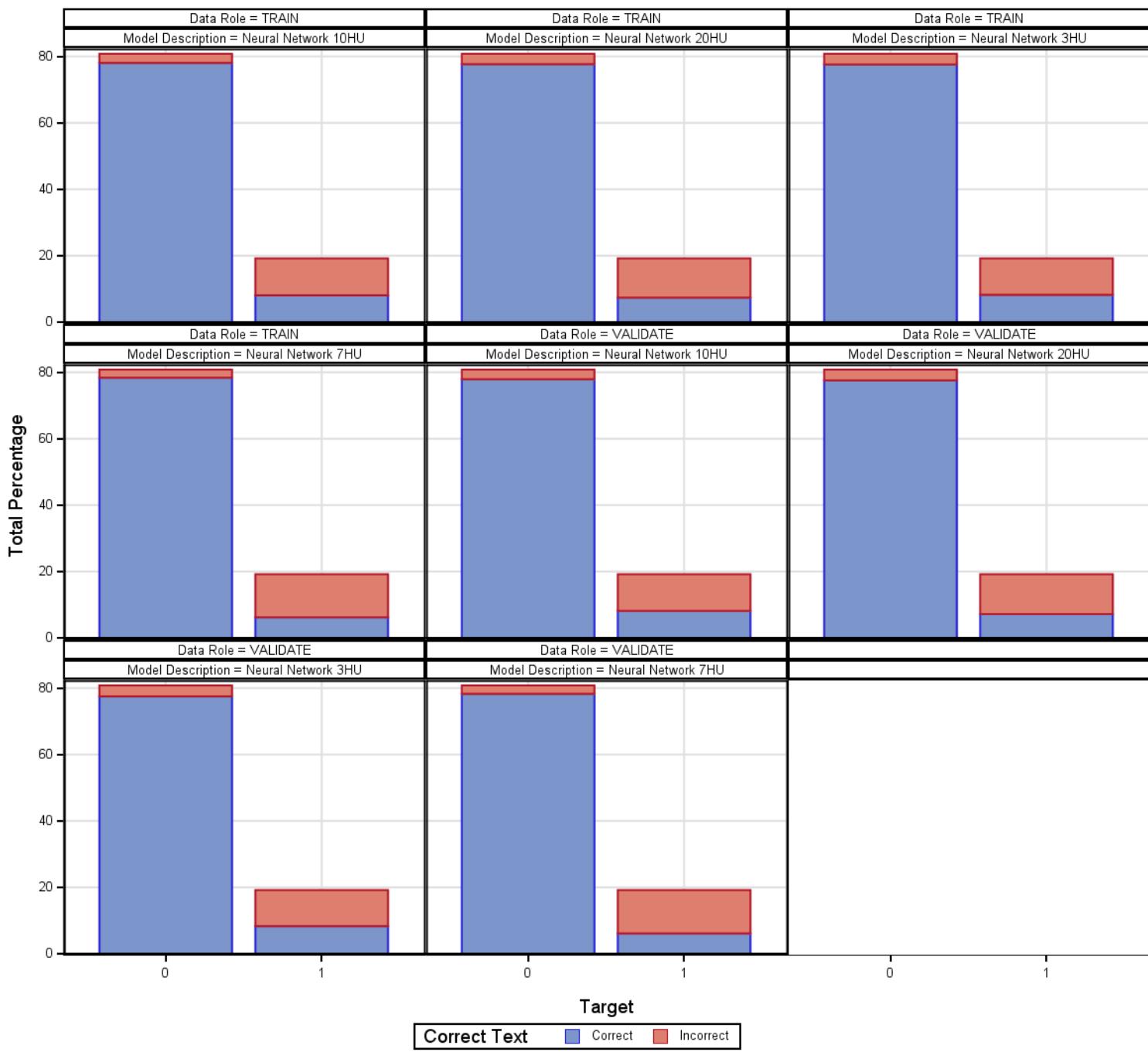
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Model Comparison NeuralNet 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	Neural10	Neural10	Neural Network 10HU	score2	score2	0.13946	0.10601	0.13891	0.532
	Neural	Neural	Neural Network 3HU	score2	score2	0.14192	0.10497	0.14203	0.545
	Neural14	Neural14	Neural Network 20HU	score2	score2	0.15263	0.11240	0.14947	0.504
	Neural9	Neural9	Neural Network 7HU	score2	score2	0.15609	0.11455	0.15433	0.492

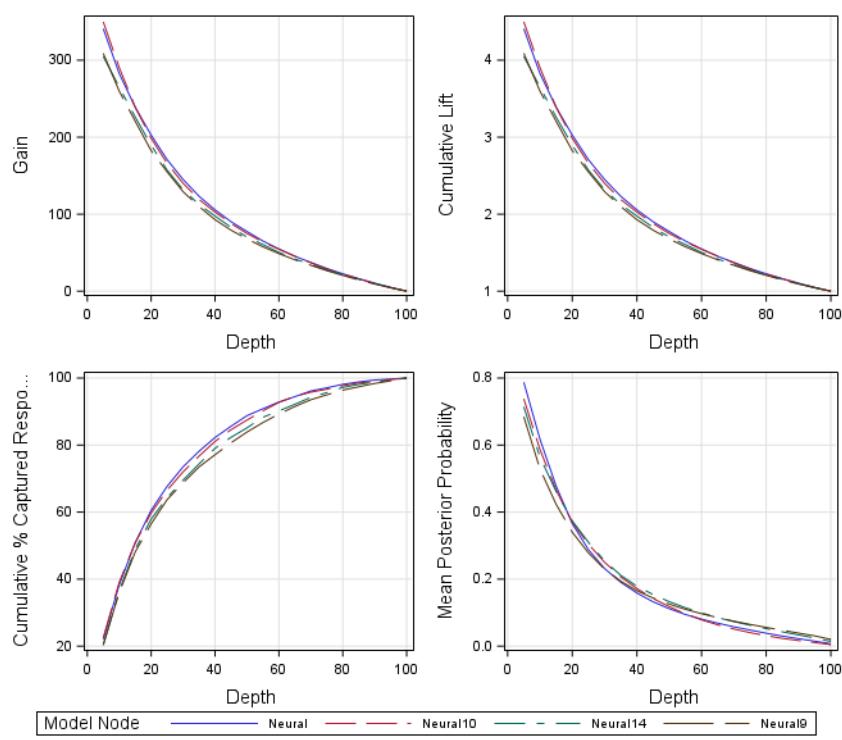
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	Neural10	Neural10	Neural Network 10HU	score2	score2	0.13946	0.10678	0.13946	0.526
	Neural	Neural	Neural Network 3HU	score2	score2	0.14192	0.10577	0.14192	0.535
	Neural14	Neural14	Neural Network 20HU	score2	score2	0.15263	0.11316	0.15263	0.506
	Neural9	Neural9	Neural Network 7HU	score2	score2	0.15609	0.11517	0.15609	0.487

SAS Enterprise Miner Report
Node=Model Comparison NeuralNet
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



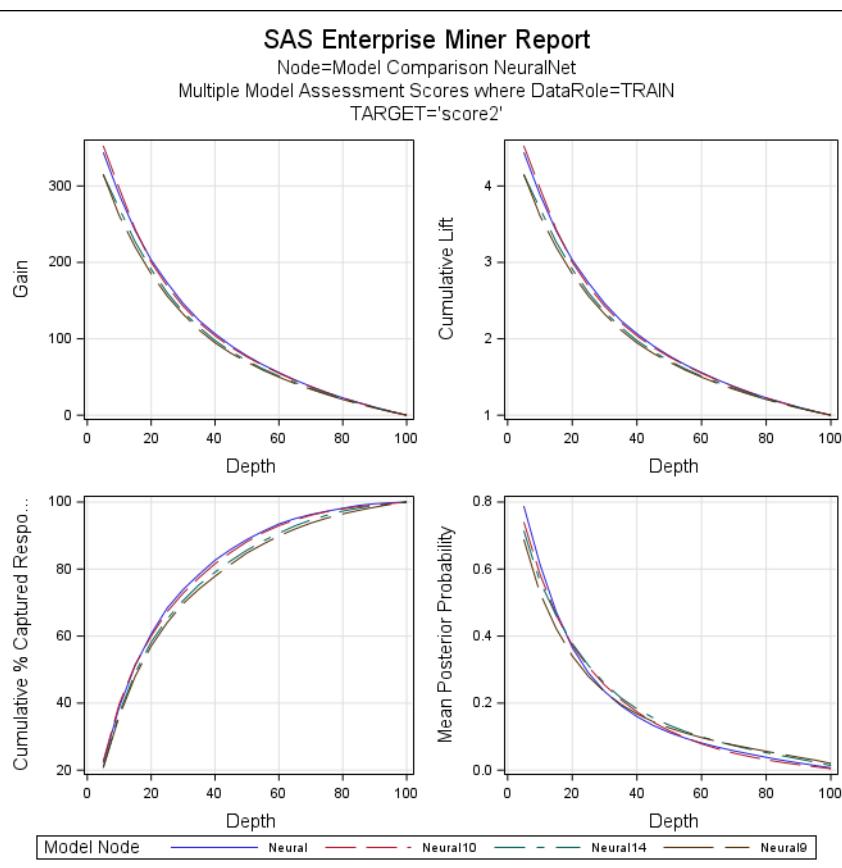
SAS Enterprise Miner Report

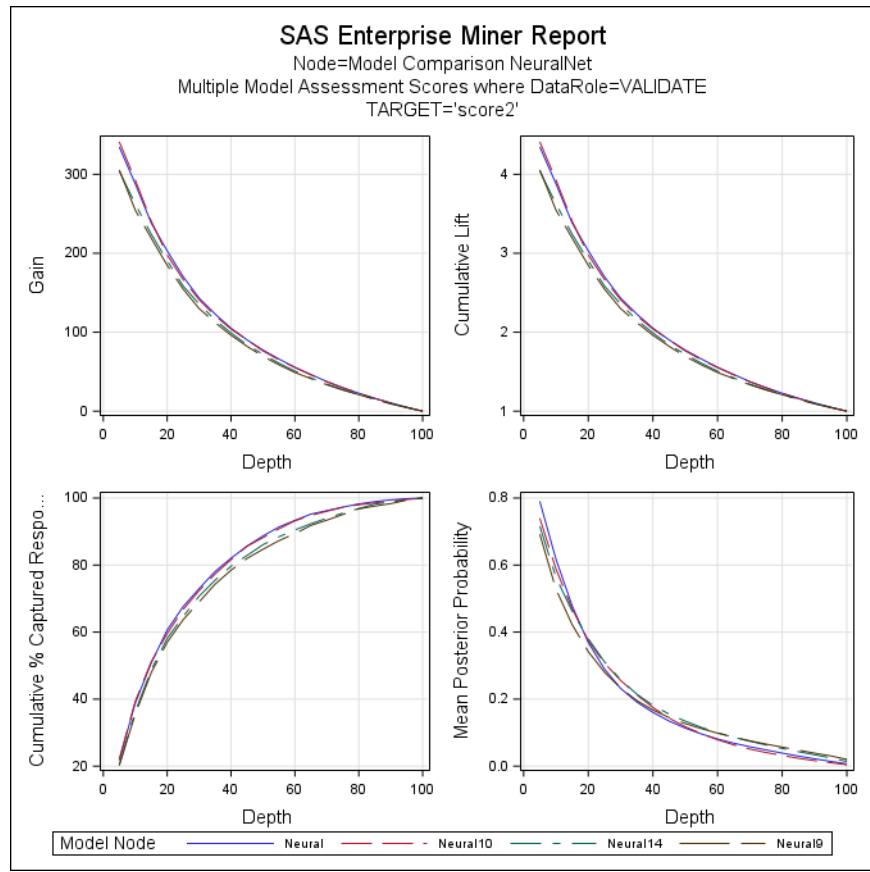
Node=Model Comparison NeuralNet
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



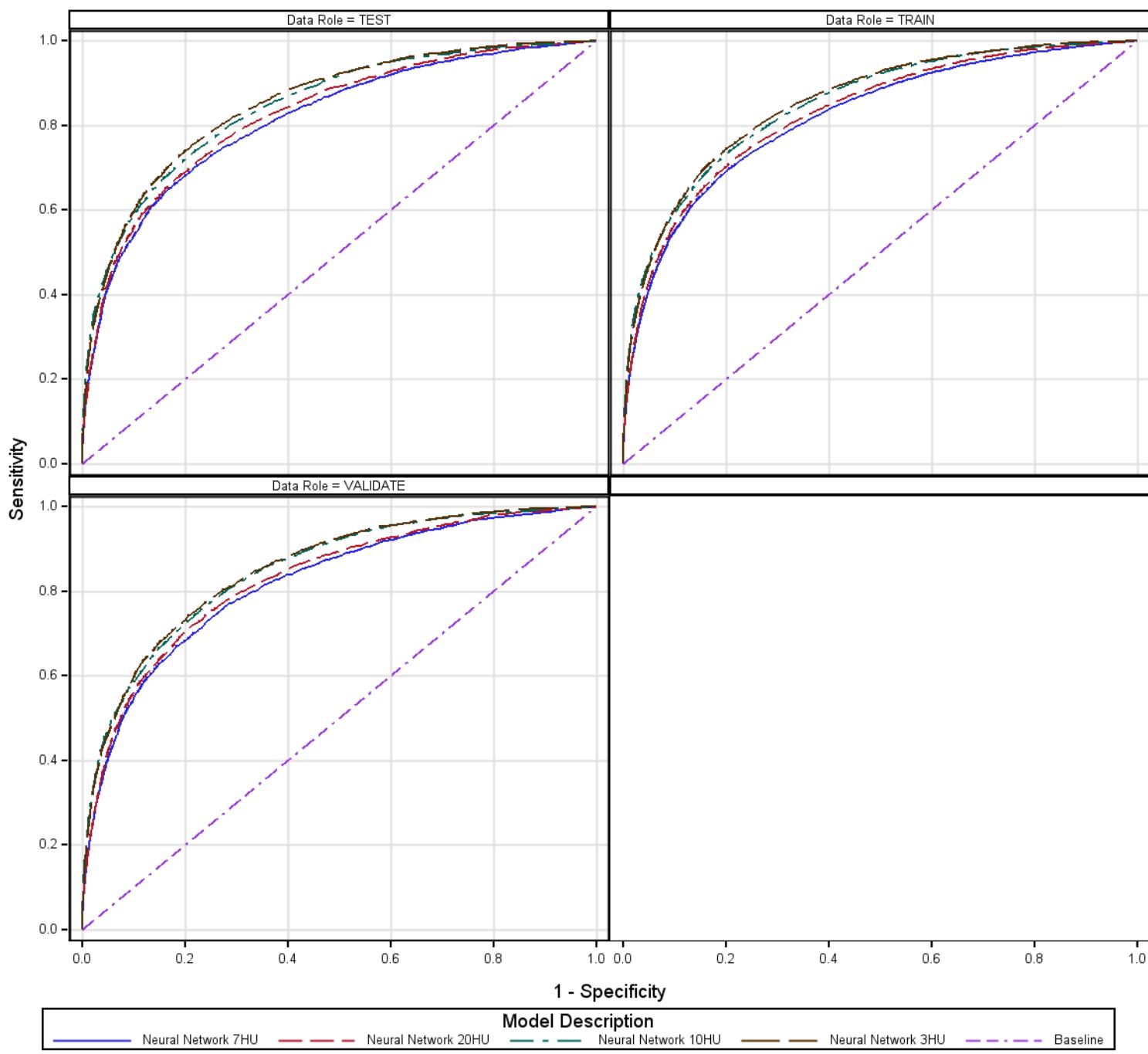
SAS Enterprise Miner Report

Node=Model Comparison NeuralNet
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'





SAS Enterprise Miner Report
Node=Model Comparison NeuralNet
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Best Model Selective Vars Score2 Summary

Node id = MdlComp7
 Node label = Best Model Selective Vars Score2
 Meta path = lds6 => Part3 => Tree17 => MdlComp18 => MdlComp7
 Notes =

Node=Best Model Selective Vars Score2 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Decision Tree B4D16		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree17		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Best Model Selective Vars Score2 Variable Summary

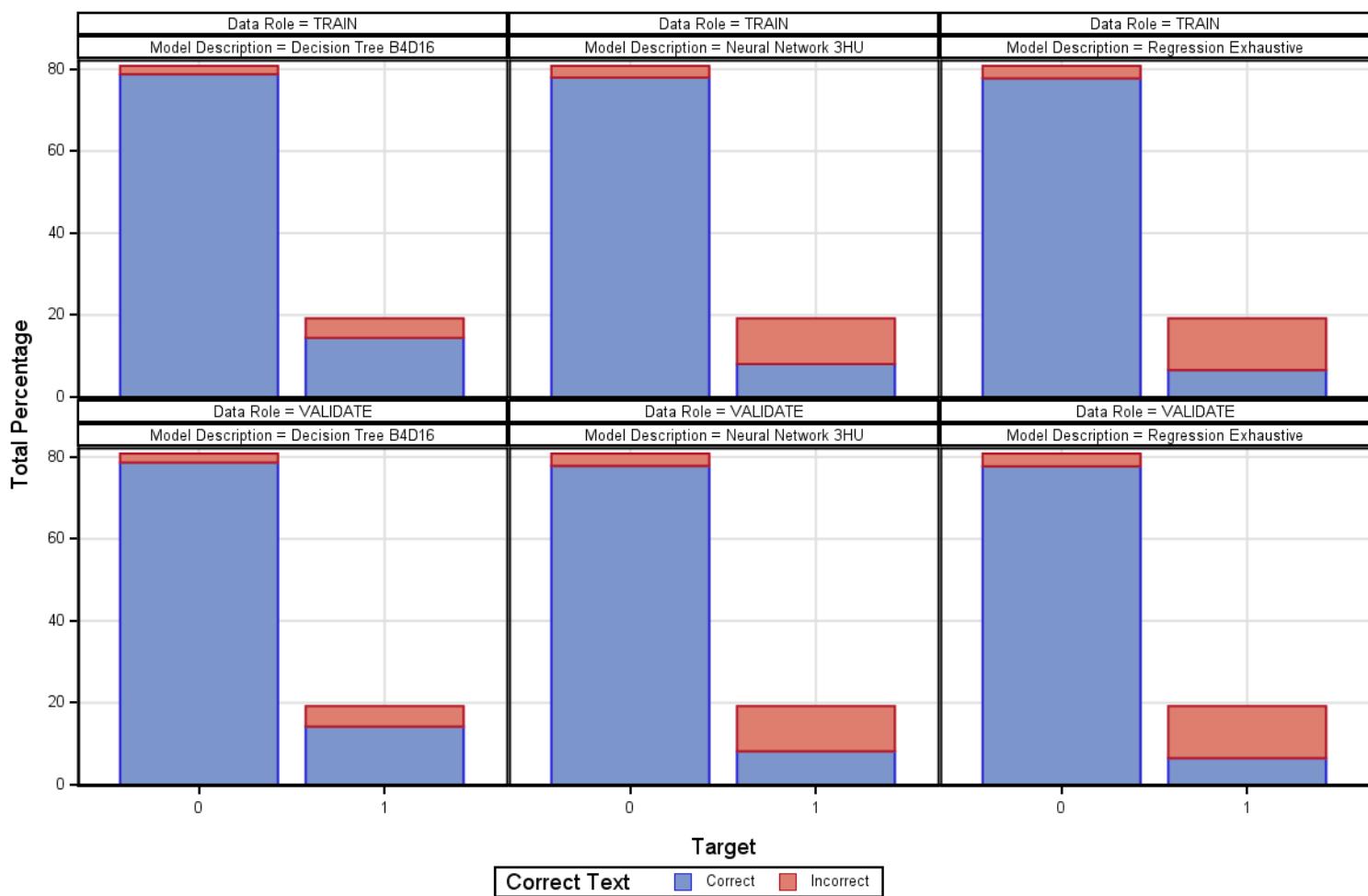
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Best Model Selective Vars Score2 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	MdlComp18	Tree17	Decision Tree B4D16	score2	score2	0.07162	0.05342	0.06807	0.781
	MdlComp4	Neural16	Neural Network 3HU	score2	score2	0.14008	0.10393	0.13992	0.544
	MdlComp3	Reg16	Regression Exhaustive	score2	score2	0.15793	0.11586	0.15665	0.479

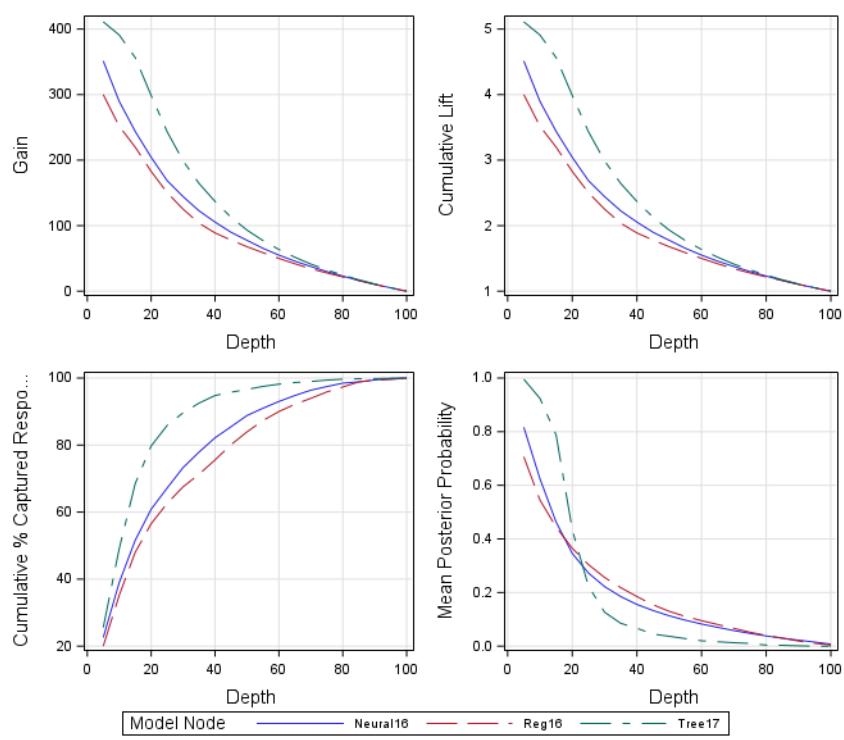
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	MdlComp18	Tree17	Decision Tree B4D16	score2	score2	0.07162	0.05724	0.07162	0.763
	MdlComp4	Neural16	Neural Network 3HU	score2	score2	0.14008	0.10488	0.14008	0.534
	MdlComp3	Reg16	Regression Exhaustive	score2	score2	0.15793	0.11606	0.15793	0.474

SAS Enterprise Miner Report
Node=Best Model Selective Vars Score2
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



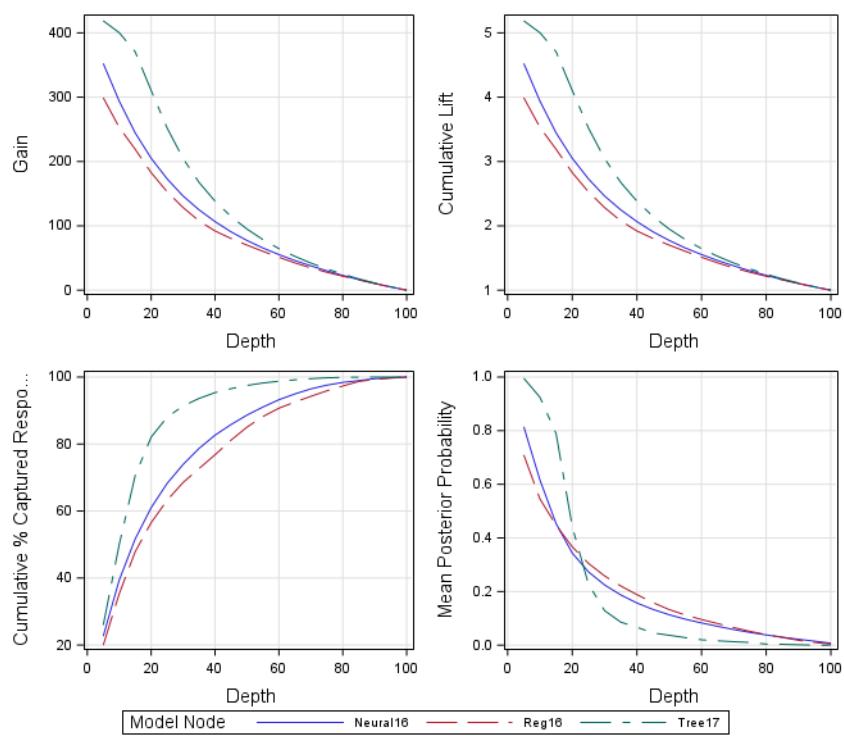
SAS Enterprise Miner Report

Node=Best Model Selective Vars Score2
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



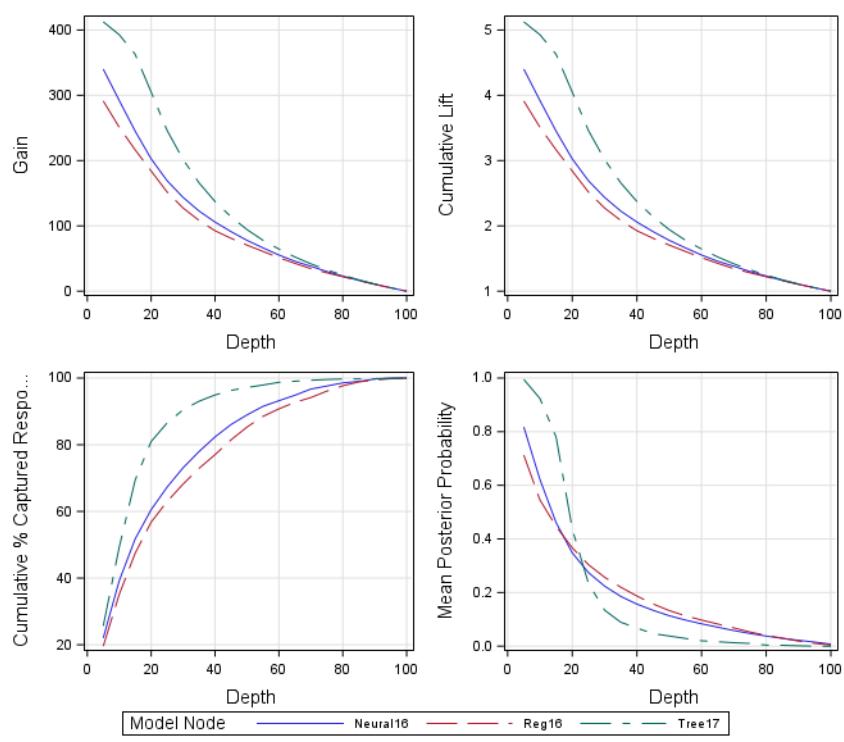
SAS Enterprise Miner Report

Node=Best Model Selective Vars Score2
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'

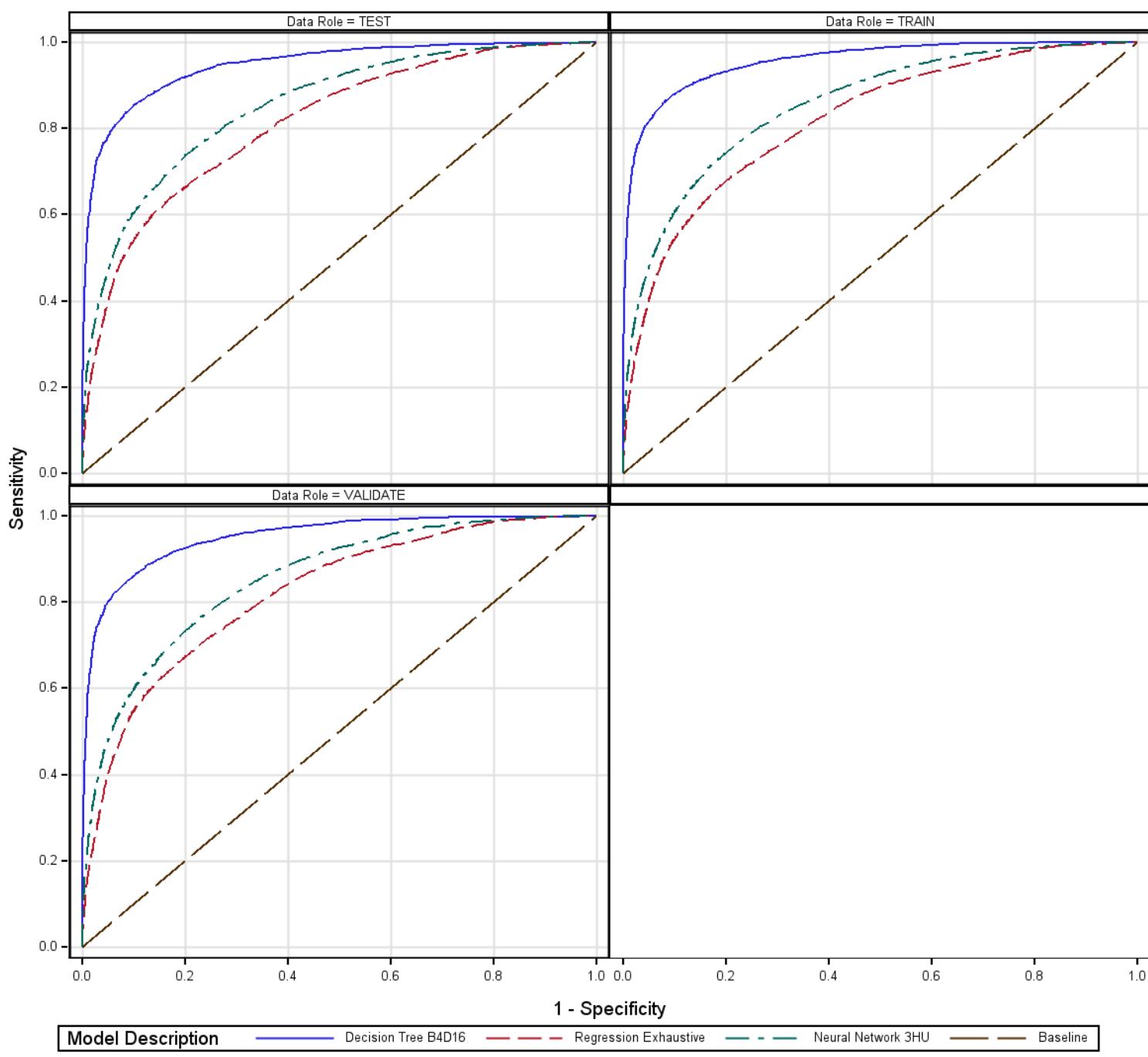


SAS Enterprise Miner Report

Node=Best Model Selective Vars Score2
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'



SAS Enterprise Miner Report
Node=Best Model Selective Vars Score2
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Best Model All Vars Score2 Summary

Node id = MdlComp16
 Node label = Best Model All Vars Score2
 Meta path = Ids => Part => Tree3 => MdlComp => MdlComp16
 Notes =

Node=Best Model All Vars Score2 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Decision Tree B4D16		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree3		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Best Model All Vars Score2 Variable Summary

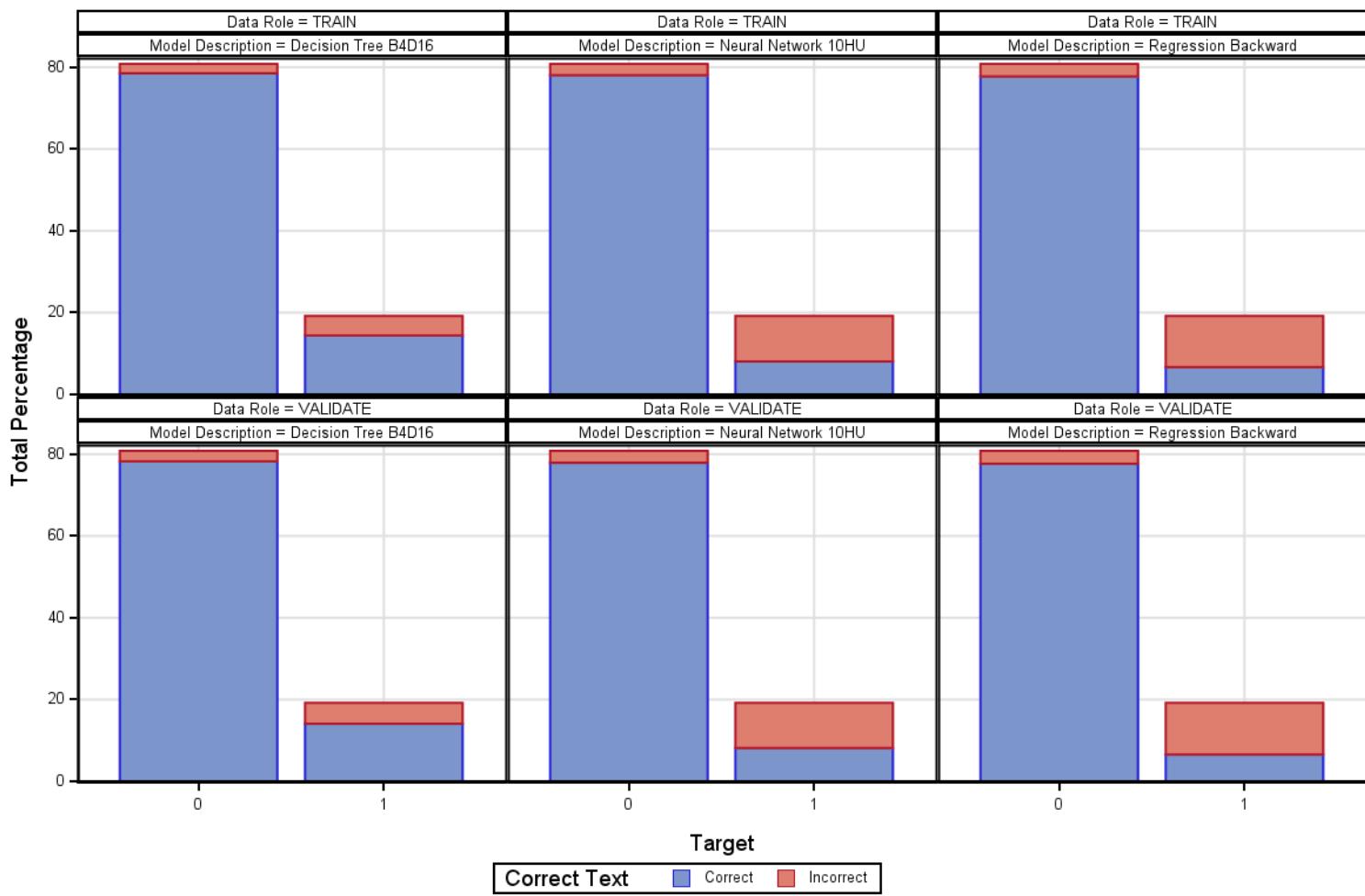
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Best Model All Vars Score2 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	MdlComp	Tree3	Decision Tree B4D16	score2	score2	0.07669	0.05400	0.07066	0.766
	MdlComp13	Neural10	Neural Network 10HU	score2	score2	0.13946	0.10601	0.13891	0.532
	MdlComp12	Reg10	Regression Backward	score2	score2	0.15784	0.11563	0.15588	0.481

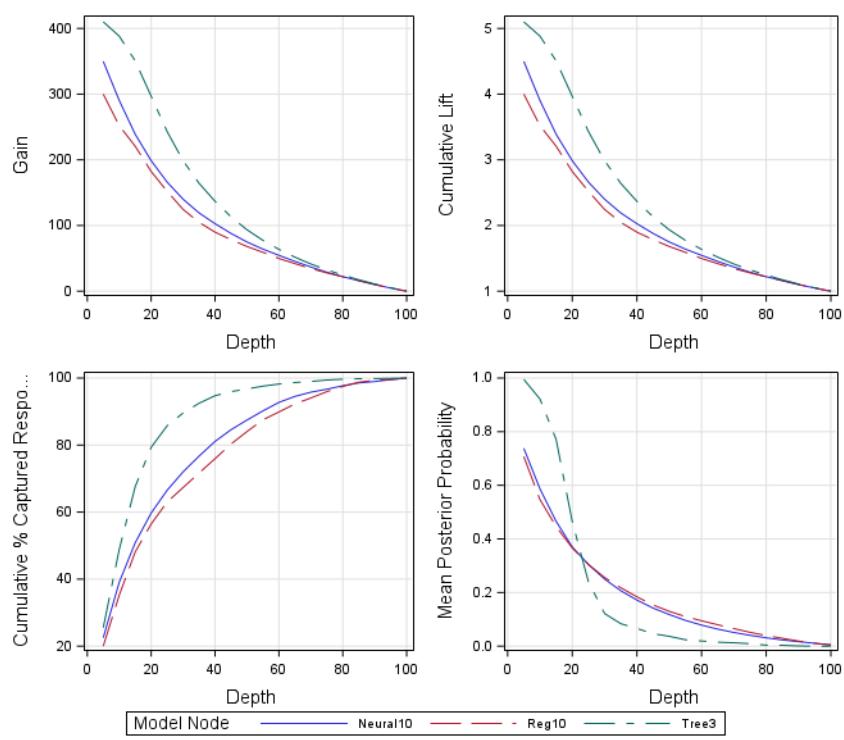
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Y	MdlComp	Tree3	Decision Tree B4D16	score2	score2	0.07669	0.05870	0.07669	0.769
	MdlComp13	Neural10	Neural Network 10HU	score2	score2	0.13946	0.10678	0.13946	0.526
	MdlComp12	Reg10	Regression Backward	score2	score2	0.15784	0.11596	0.15784	0.476

SAS Enterprise Miner Report
Node=Best Model All Vars Score2
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



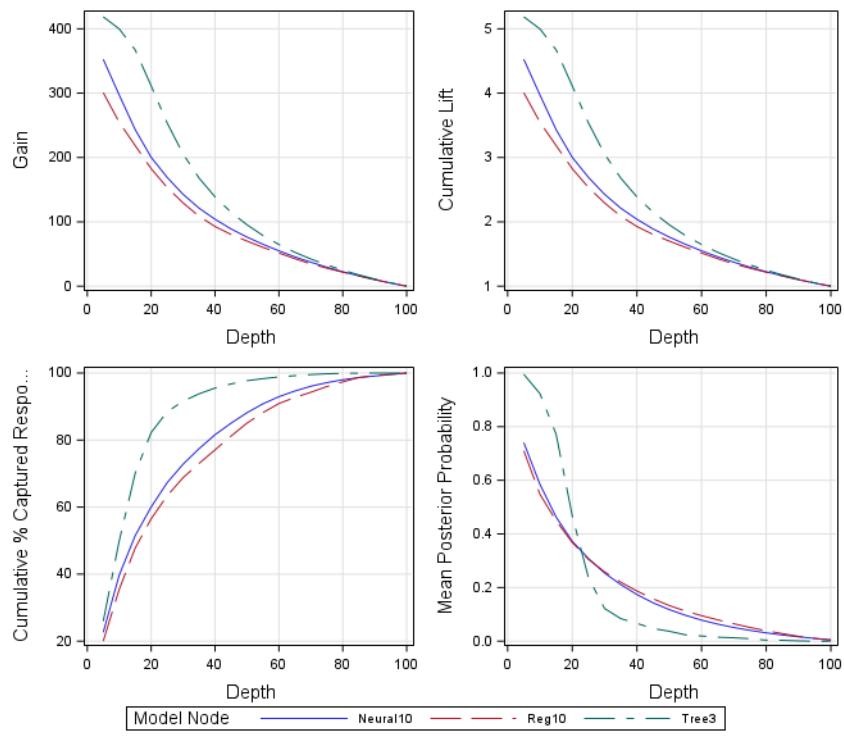
SAS Enterprise Miner Report

Node=Best Model All Vars Score2
 Multiple Model Assessment Scores where DataRole=TEST
 TARGET='score2'



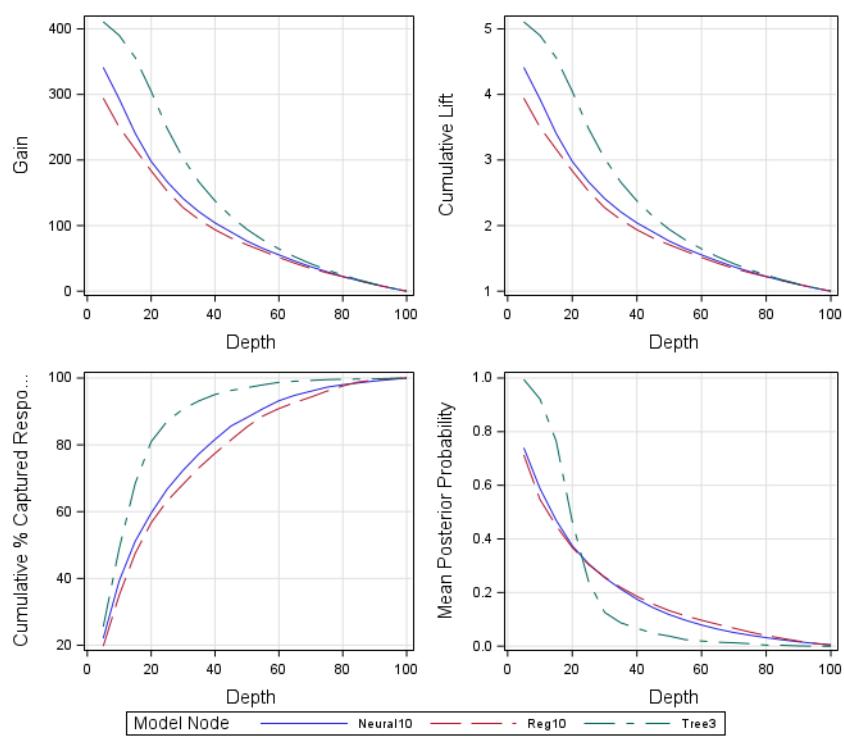
SAS Enterprise Miner Report

Node=Best Model All Vars Score2
 Multiple Model Assessment Scores where DataRole=TRAIN
 TARGET='score2'

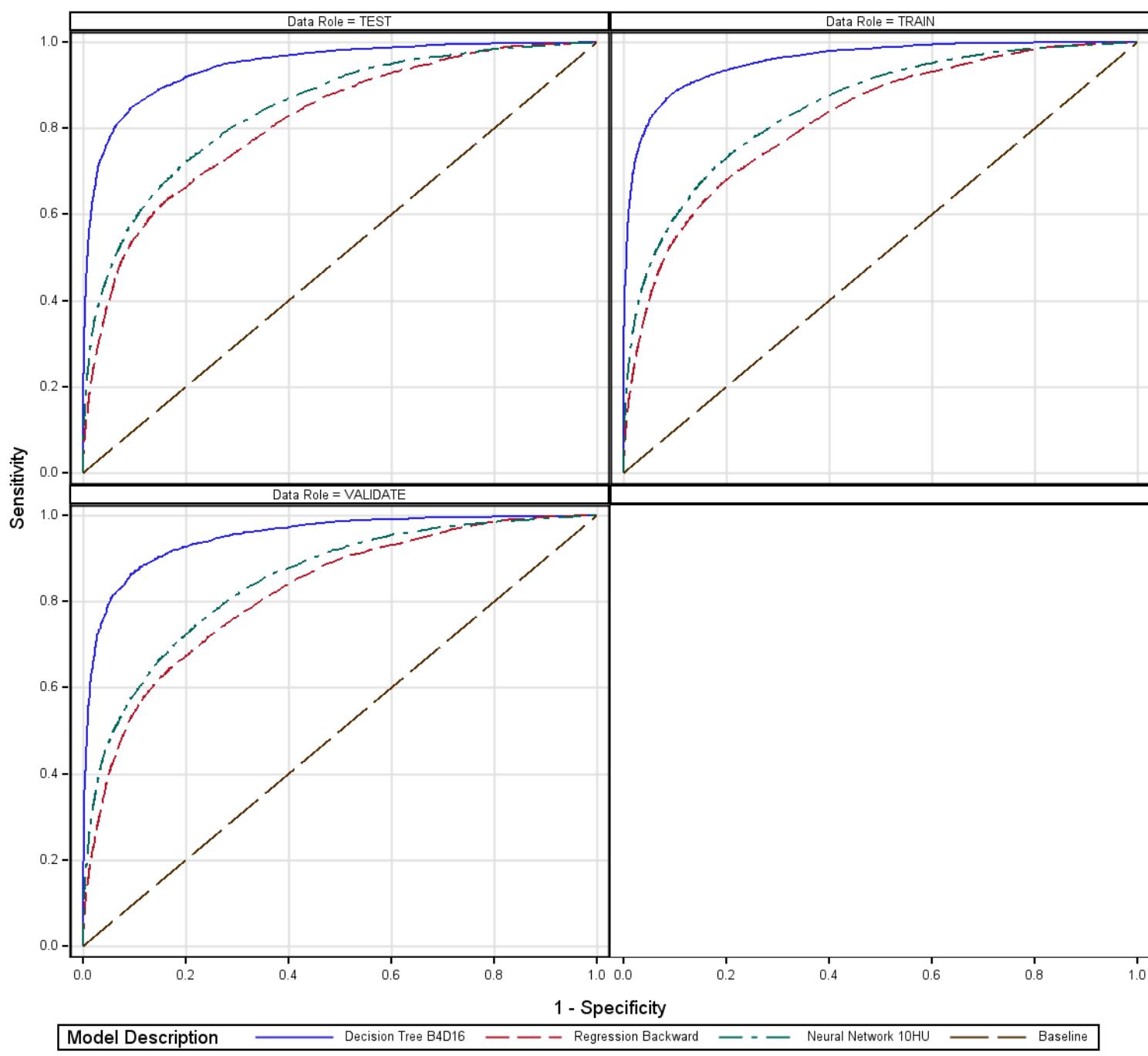


SAS Enterprise Miner Report

Node=Best Model All Vars Score2
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'



SAS Enterprise Miner Report
Node=Best Model All Vars Score2
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=File Import (3) Summary

Node id = FIMPORT3
 Node label = File Import (3)
 Meta path = FIMPORT3
 Notes =

Node=File Import (3) Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	FileImport		GuessRows	500		NameRow	Y	
AccessTable	NoTableName		IFileName	C:\Users\hbath\Downloads\ScoringData1_Updated (1).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 (3) Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT3_DATA	Date Created	14Dec2024:23:00:20	Data Size	2884608
Data Type	DATA	Date Modified	14Dec2024:23:00:20	Role	TRAIN
Data Label		Number Rows	12376	Segment	
Engine	V9	Number Columns	27	Data Library	EMWS2

Node=File Import (3) Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
Column1	Column1	INPUT	NOMINAL	C	13	\$13.	
PRECTOT	PRECTOT	INPUT	INTERVAL	N	8	BEST.	
PS	PS	INPUT	INTERVAL	N	8	BEST.	
QV2M	QV2M	INPUT	INTERVAL	N	8	BEST.	
T2M	T2M	INPUT	INTERVAL	N	8	BEST.	
T2MDEW	T2MDEW	INPUT	INTERVAL	N	8	BEST.	
T2MWET	T2MWET	INPUT	INTERVAL	N	8	BEST.	
T2M_MAX	T2M_MAX	INPUT	INTERVAL	N	8	BEST.	
T2M_MIN	T2M_MIN	INPUT	INTERVAL	N	8	BEST.	
T2M_RANGE	T2M_RANGE	INPUT	INTERVAL	N	8	BEST.	
TS	TS	INPUT	INTERVAL	N	8	BEST.	
WS10M	WS10M	INPUT	INTERVAL	N	8	BEST.	
WS10M_MAX	WS10M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS10M_MIN	WS10M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS10M_RANGE	WS10M_RANGE	INPUT	INTERVAL	N	8	BEST.	
WS50M	WS50M	INPUT	INTERVAL	N	8	BEST.	
WS50M_MAX	WS50M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS50M_MIN	WS50M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS50M_RANGE	WS50M_RANGE	INPUT	INTERVAL	N	8	BEST.	
date	date	TIMEID	INTERVAL	N	8	DATETIME16.0	

Name	Label	Role	Level	Type	Length	Format	Creator
fips	fips	INPUT	INTERVAL	N	8	BEST.	
month	month	INPUT	INTERVAL	N	8	BEST.	
score	score	INPUT	INTERVAL	N	8	BEST.	
score1	score1	INPUT	INTERVAL	N	8	BEST.	
score2	score2	INPUT	INTERVAL	N	8	BEST.	
state_y	state_y	INPUT	NOMINAL	C	14	\$14.	
year	year	INPUT	INTERVAL	N	8	BEST.	

Node=File Import (3)**Created Variables List**

SAS Enterprise Miner Report

Node=Best Model Score2 Summary

Node id = MdlComp9
 Node label = Best Model Score2
 Meta path = Ids6 => Part3 => Tree17 => MdlComp18 => MdlComp7 => MdlComp9
 Notes =

Node=Best Model Score2 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	score2	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	score2	
ModelDescription	Decision Tree B4D16		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree17		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Best Model Score2 Variable Summary

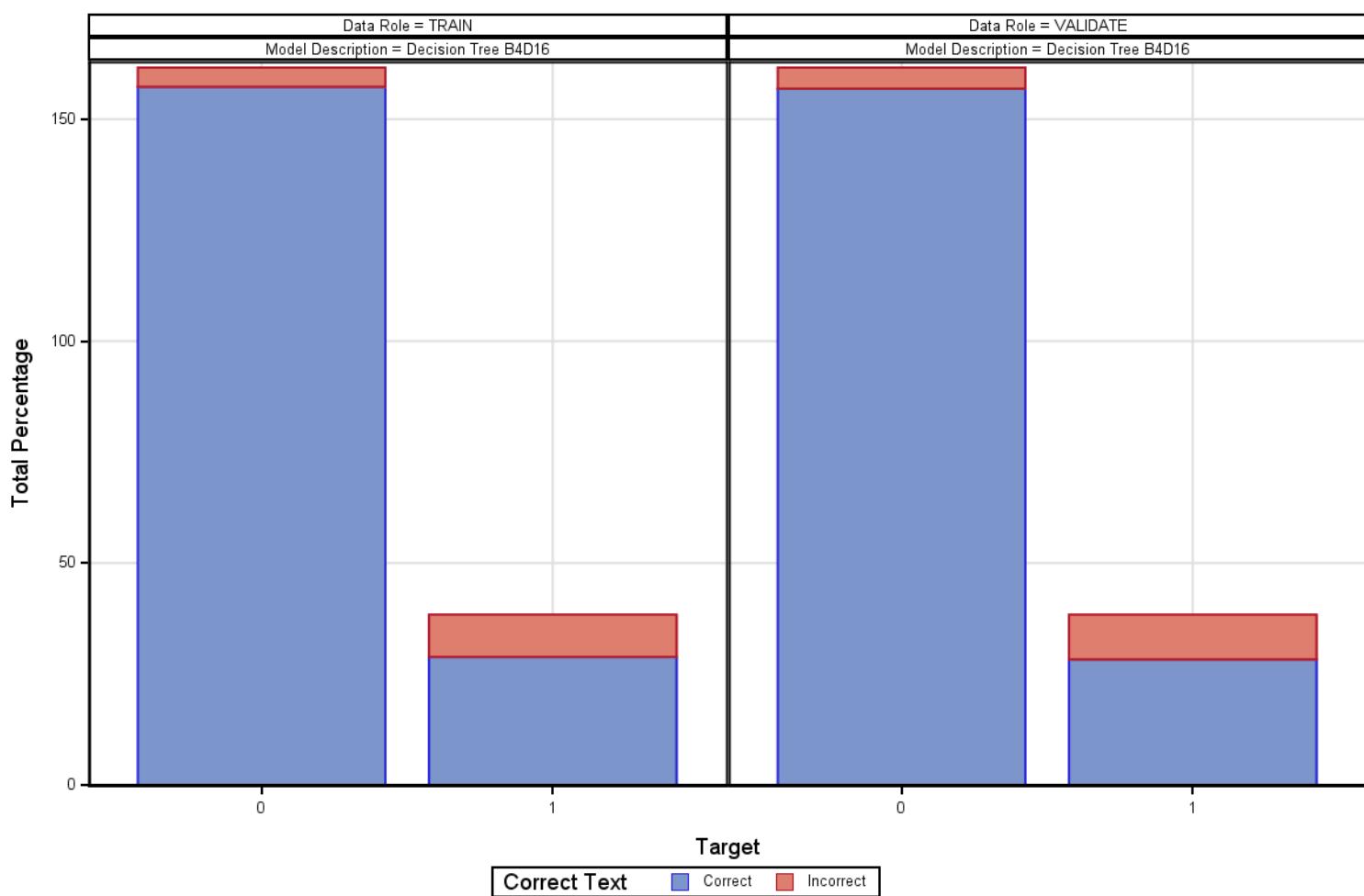
Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2

Node=Best Model Score2 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	MdlComp7	Tree17	Decision Tree B4D16	score2	score2	0.071625	0.053424	0.068071	0.781
	MdlComp16	Tree3	Decision Tree B4D16	score2	score2	0.076694	0.054003	0.070660	0.786

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	MdlComp7	Tree17	Decision Tree B4D16	score2	score2	0.071625	0.057236	0.071625	0.763
	MdlComp16	Tree3	Decision Tree B4D16	score2	score2	0.076694	0.058699	0.076694	0.769

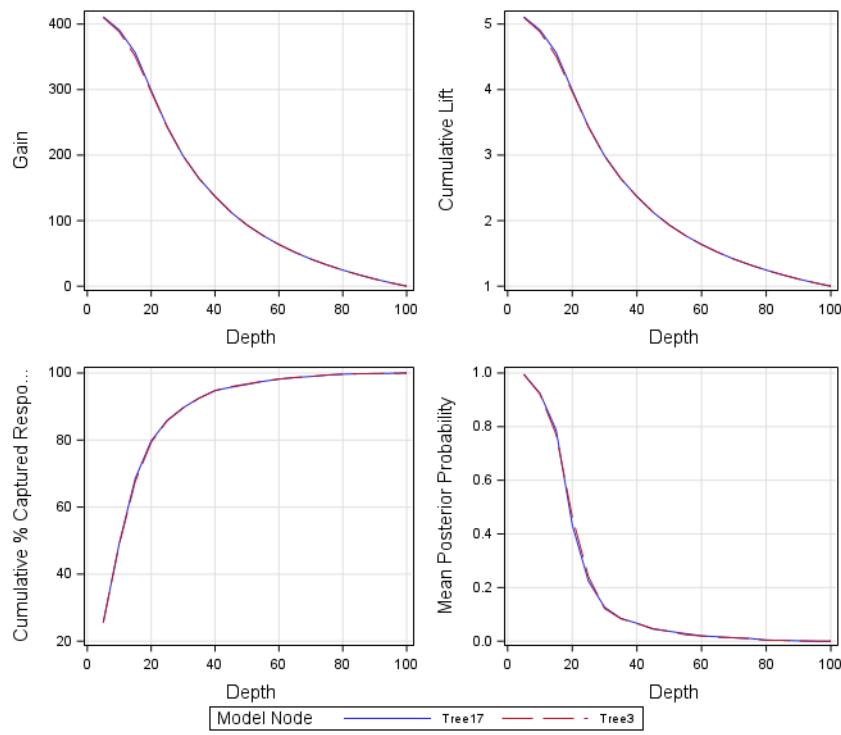
SAS Enterprise Miner Report
Node=Best Model Score2
Classification Chart
TARGET='score2' and _TYPE_='PREDICTION'



SAS Enterprise Miner Report

Node=Best Model Score2

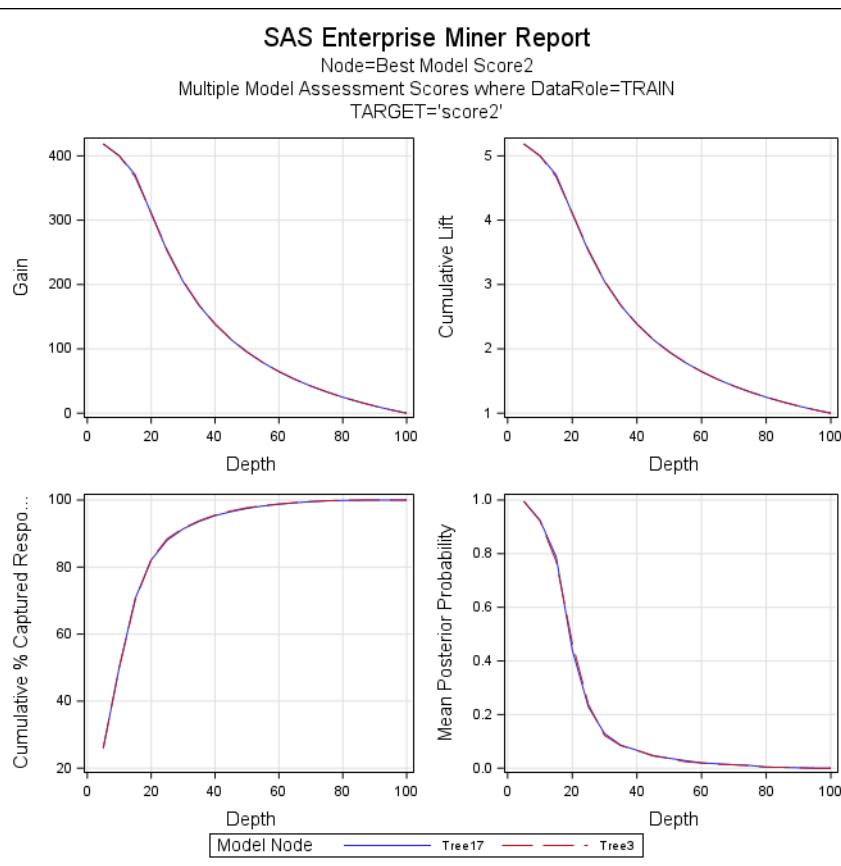
Multiple Model Assessment Scores where DataRole=TEST
TARGET='score2'



SAS Enterprise Miner Report

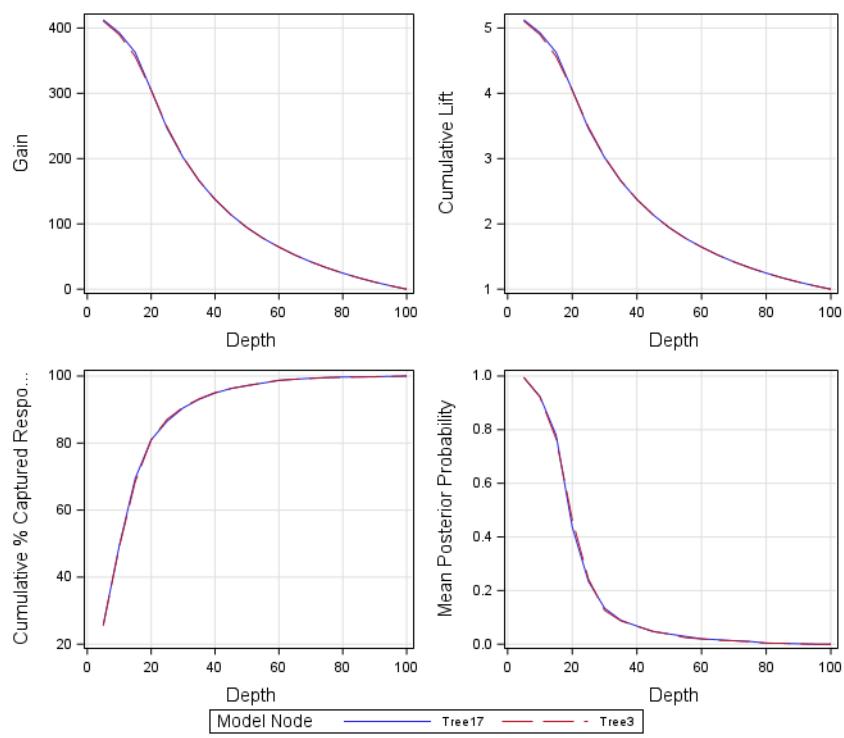
Node=Best Model Score2

Multiple Model Assessment Scores where DataRole=TRAIN
TARGET='score2'

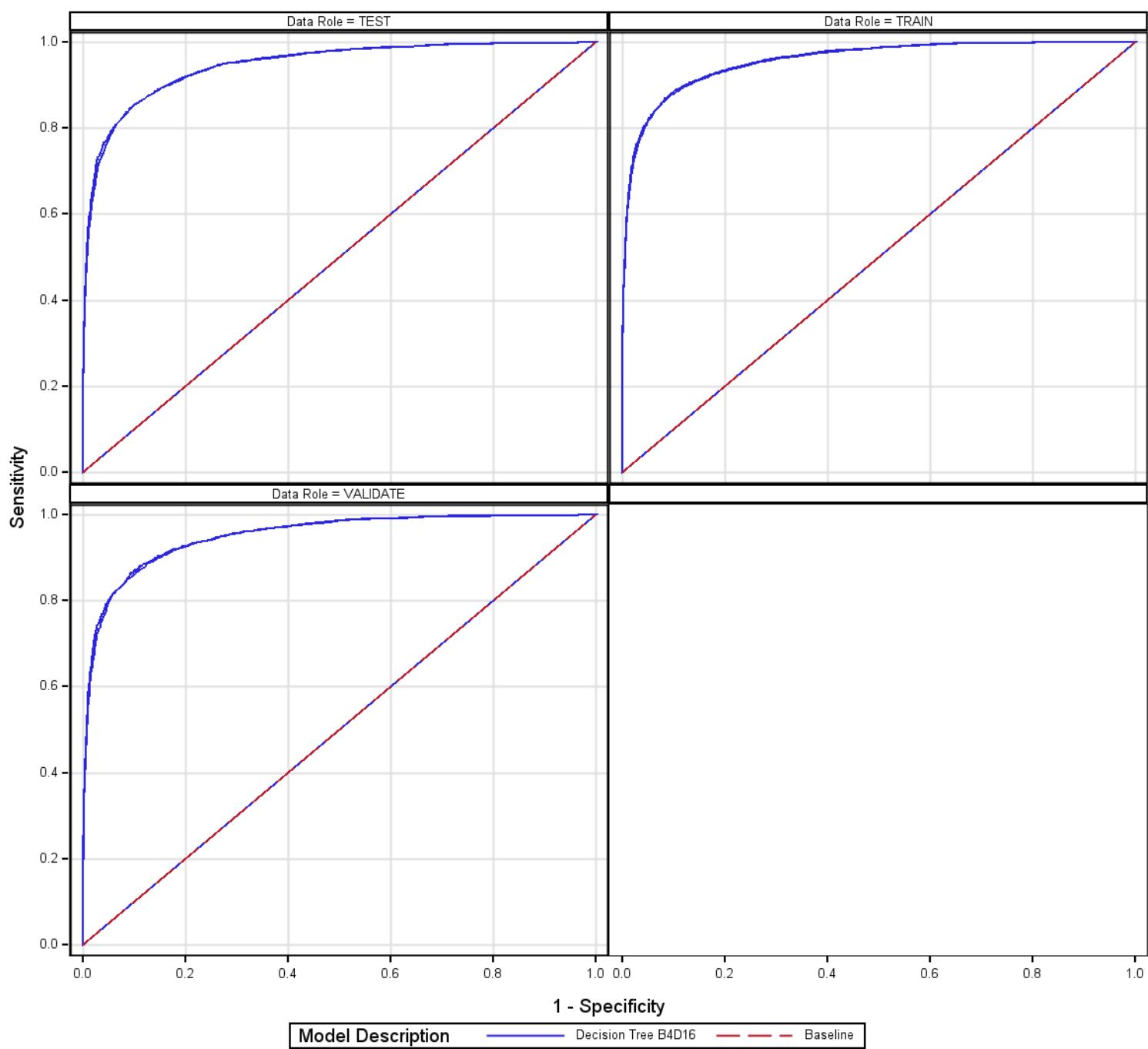


SAS Enterprise Miner Report

Node=Best Model Score2

Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='score2'

SAS Enterprise Miner Report
Node=Best Model Score2
ROC Chart
TARGET='score2' and EVENT='1'



SAS Enterprise Miner Report

Node=Score (2) Summary

Node id = Score2
 Node label = Score (2)
 Meta path = lds6 => Part3 => Tree17 => MdlComp18 => MdlComp7 => MdlComp9 => Score2
 Notes =

Node=Score (2) Properties

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

Node=Score (2) Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
SEGMENT	NOMINAL	1	_NODE_

Node=Score (2) Output Variables

Variable Name	Creator	Variable Label	Function	Type
EM_CLASSIFICATION	Score2	Prediction for score2	CLASSIFICATION	C
EM_EVENTPROBABILITY	Score2	Probability for level 1 of score2	PREDICT	N
EM_PROBABILITY	Score2	Probability of Classification	PREDICT	N
EM_SEGMENT	Score2	Node	TRANSFORM	N
I_score2	Tree17	Into: score2	CLASSIFICATION	C
P_score20	Tree17	Predicted: score2=0	PREDICT	N
P_score21	Tree17	Predicted: score2=1	PREDICT	N
Q_score20	Tree17	Unadjusted P: score2=0	TRANSFORM	N
Q_score21	Tree17	Unadjusted P: score2=1	TRANSFORM	N
U_score2	Tree17	Unnormalized Into: score2	CLASSIFICATION	N
V_score20	Tree17	Validated: score2=0	PREDICT	N
V_score21	Tree17	Validated: score2=1	PREDICT	N
NODE	Tree17	Node	TRANSFORM	N
WARN	Tree17	Warnings	ASSESS	C

SAS Enterprise Miner Report

Node=Score (2)

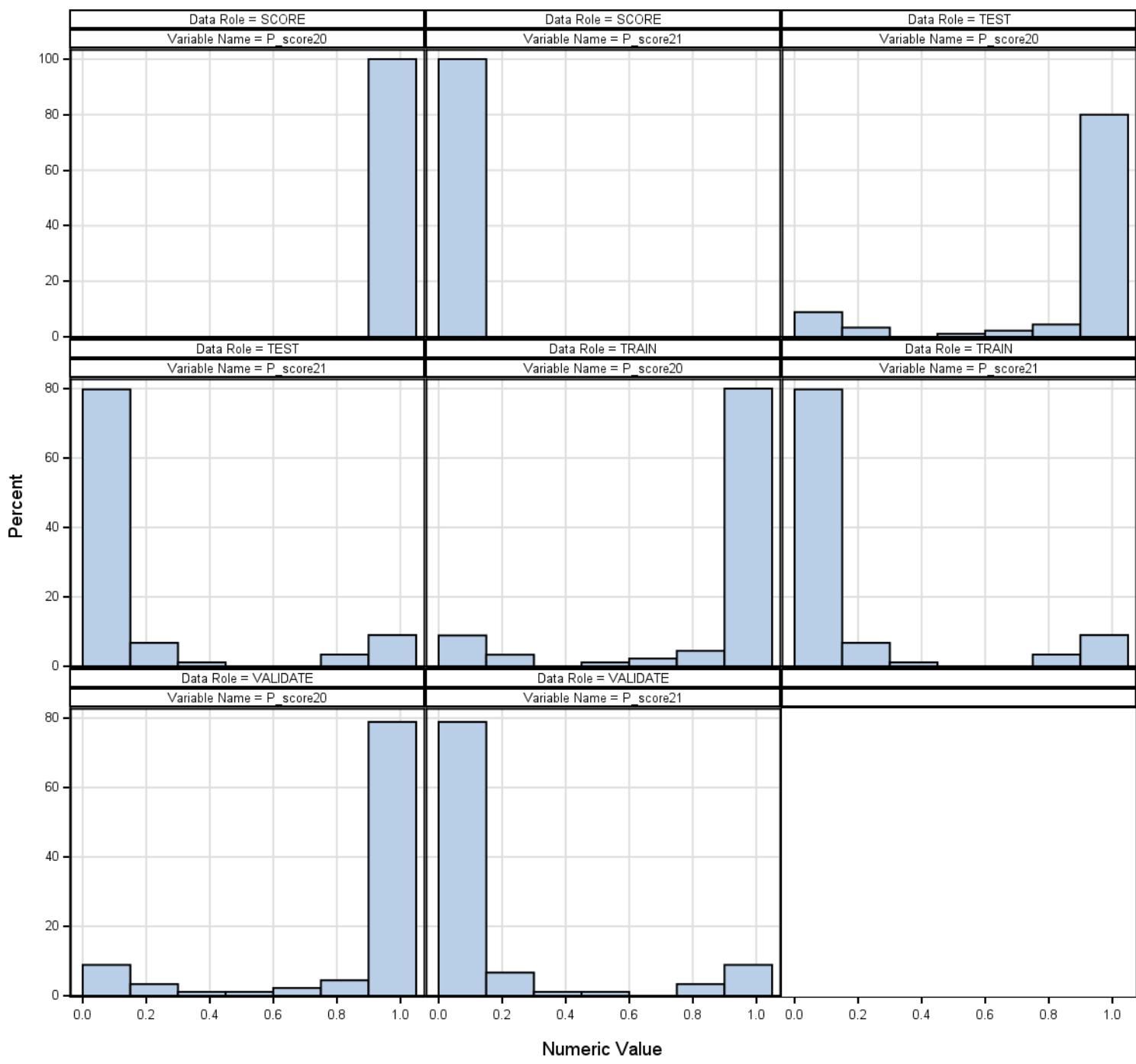
Bar Chart

Output Type = CLASSIFICATION Data Role = SCORE	Output Type = CLASSIFICATION Data Role = TEST	Output Type = CLASSIFICATION Data Role = TRAIN
Output Type = CLASSIFICATION Data Role = VALIDATE	Output Type = SEGMENT Data Role = SCORE	Output Type = SEGMENT Data Role = TEST
Output Type = SEGMENT Data Role = TRAIN	Output Type = SEGMENT Data Role = VALIDATE	

SAS Enterprise Miner Report

Node=Score (2)

Histogram



SAS Enterprise Miner Report

Node=File Import ScoringData1 Summary

Node id = FIMPORT2
 Node label = File Import ScoringData1
 Meta path = FIMPORT2
 Notes =

Node=File Import ScoringData1 Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	FileImport		GuessRows	500		NameRow	Y	
AccessTable	NoTableName		IFileName	C:\Users\hbath\Downloads\ScoringData2_Updated.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 ScoringData1 Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT2_DATA	Date Created	14Dec2024:23:00:06	Data Size	2950144
Data Type	DATA	Date Modified	14Dec2024:23:00:06	Role	TRAIN
Data Label		Number Rows	12495	Segment	
Engine	V9	Number Columns	27	Data Library	EMWS2

Node=File Import ScoringData1 Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
PRECTOT	PRECTOT	INPUT	INTERVAL	N	8	BEST.	
PS	PS	INPUT	INTERVAL	N	8	BEST.	
QV2M	QV2M	INPUT	INTERVAL	N	8	BEST.	
T2M	T2M	INPUT	INTERVAL	N	8	BEST.	
T2MDEW	T2MDEW	INPUT	INTERVAL	N	8	BEST.	
T2MWET	T2MWET	INPUT	INTERVAL	N	8	BEST.	
T2M_MAX	T2M_MAX	INPUT	INTERVAL	N	8	BEST.	
T2M_MIN	T2M_MIN	INPUT	INTERVAL	N	8	BEST.	
T2M_RANGE	T2M_RANGE	INPUT	INTERVAL	N	8	BEST.	
TS	TS	INPUT	INTERVAL	N	8	BEST.	
WS10M	WS10M	INPUT	INTERVAL	N	8	BEST.	
WS10M_MAX	WS10M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS10M_MIN	WS10M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS10M_RANGE	WS10M_RANGE	INPUT	INTERVAL	N	8	BEST.	
WS50M	WS50M	INPUT	INTERVAL	N	8	BEST.	
WS50M_MAX	WS50M_MAX	INPUT	INTERVAL	N	8	BEST.	
WS50M_MIN	WS50M_MIN	INPUT	INTERVAL	N	8	BEST.	
WS50M_RANGE	WS50M_RANGE	INPUT	INTERVAL	N	8	BEST.	
country	country	INPUT	NOMINAL	C	13	\$13.	
date	date	TIMEID	INTERVAL	N	8	DATETIME16.0	

Name	Label	Role	Level	Type	Length	Format	Creator
fips	fips	INPUT	INTERVAL	N	8	BEST.	
month	month	INPUT	INTERVAL	N	8	BEST.	
score	score	INPUT	INTERVAL	N	8	BEST.	
score1	score1	INPUT	INTERVAL	N	8	BEST.	
score2	score2	INPUT	INTERVAL	N	8	BEST.	
state_y	state_y	INPUT	NOMINAL	C	14	\$14.	
year	year	INPUT	INTERVAL	N	8	BEST.	

Node=File Import ScoringData1**Created Variables List**

SAS Enterprise Miner Report

Node=Score Summary

Node id = Score
 Node label = Score
 Meta path = lds6 => Part3 => Tree17 => MdlComp18 => MdlComp7 => MdlComp9 => Score
 Notes =

Node=Score Properties

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

Node=Score Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	score2
SEGMENT	NOMINAL	1	_NODE_

Node=Score Output Variables

Variable Name	Creator	Variable Label	Function	Type
EM_CLASSIFICATION	Score	Prediction for score2	CLASSIFICATION	C
EM_EVENTPROBABILITY	Score	Probability for level 1 of score2	PREDICT	N
EM_PROBABILITY	Score	Probability of Classification	PREDICT	N
EM_SEGMENT	Score	Node	TRANSFORM	N
I_score2	Tree17	Into: score2	CLASSIFICATION	C
P_score20	Tree17	Predicted: score2=0	PREDICT	N
P_score21	Tree17	Predicted: score2=1	PREDICT	N
Q_score20	Tree17	Unadjusted P: score2=0	TRANSFORM	N
Q_score21	Tree17	Unadjusted P: score2=1	TRANSFORM	N
U_score2	Tree17	Unnormalized Into: score2	CLASSIFICATION	N
V_score20	Tree17	Validated: score2=0	PREDICT	N
V_score21	Tree17	Validated: score2=1	PREDICT	N
NODE	Tree17	Node	TRANSFORM	N
WARN	Tree17	Warnings	ASSESS	C

SAS Enterprise Miner Report

Node=Score

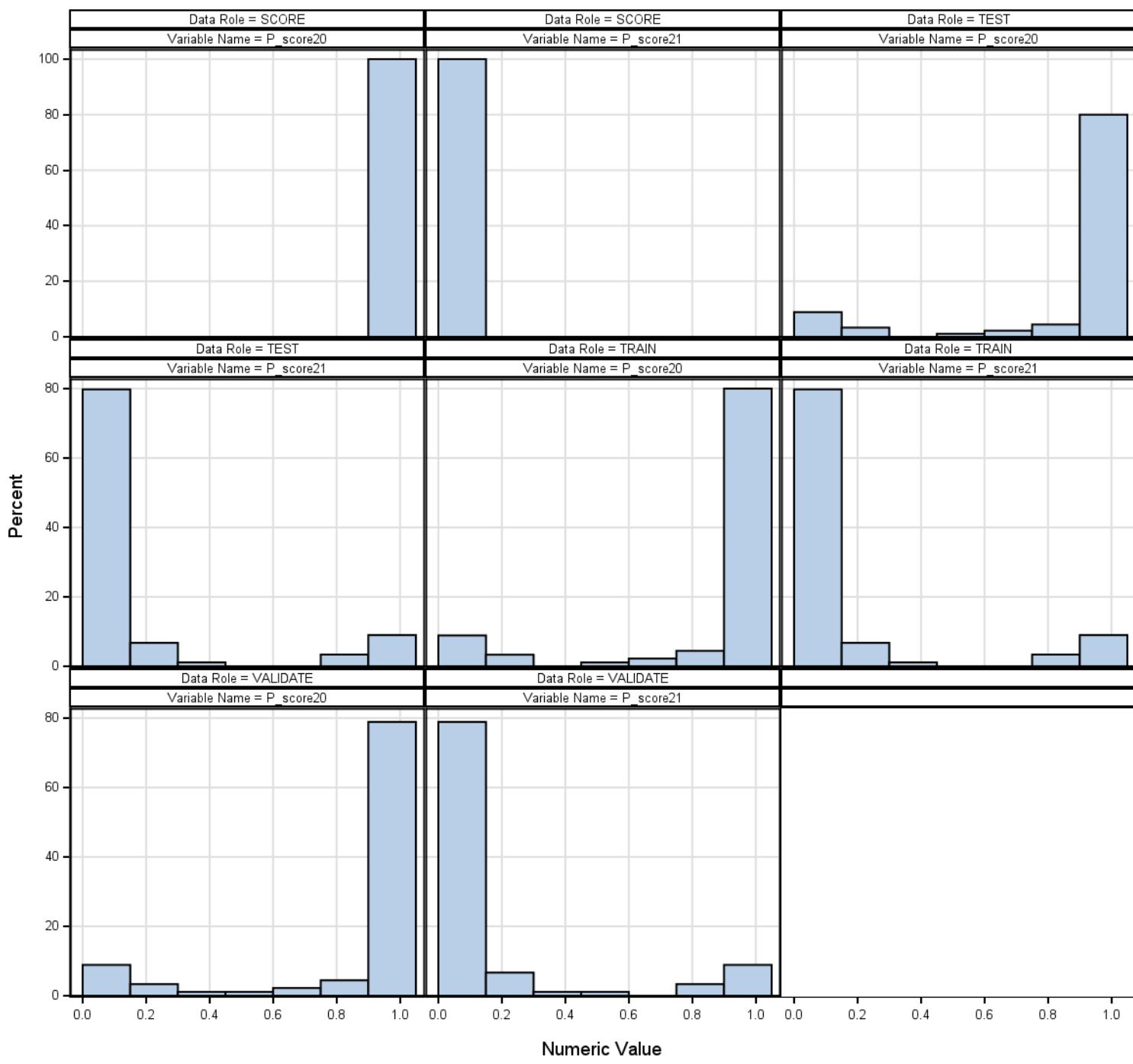
Bar Chart

Output Type = CLASSIFICATION Data Role = SCORE	Output Type = CLASSIFICATION Data Role = TEST	Output Type = CLASSIFICATION Data Role = TRAIN
Output Type = CLASSIFICATION Data Role = VALIDATE	Output Type = SEGMENT Data Role = SCORE	Output Type = SEGMENT Data Role = TEST
Output Type = SEGMENT Data Role = TRAIN	Output Type = SEGMENT Data Role = VALIDATE	

SAS Enterprise Miner Report

Node=Score

Histogram



SAS Enterprise Miner Report

Node=Save Data (3) Summary

Node id = EMSave3
 Node label = Save Data (3)
 Meta path = lds6 => Part3 => Tree17 => MdlComp18 => MdlComp7 => MdlComp9 => Score2 => EMSave3
 Notes =

Node=Save Data (3) Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	EMSSave		Name	Drought2Prediction		Train	Y	
AllObs	Y		OutObs	1000		Transaction	Y	
AllRoles	Y		Replace	Y		Type	XLSX	SAS7DBAT
DirectorySelector	C:\Users\hbath\Downloads		Score	Y		Validate	Y	
Lib			Test	Y				

Node=Save Data (3) Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	4	PS T2M T2MDEW TS
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Save Data (3) Data

Output Location	Total Observations	Saved Observations	Number of Variables
C:\Users\hbath\Downloads\Drought2Prediction_TRAIN.xlsx	63331	MAX	26
C:\Users\hbath\Downloads\Drought2Prediction_VALIDATE.xlsx	21110	MAX	26
C:\Users\hbath\Downloads\Drought2Prediction_TEST.xlsx	21112	MAX	26
C:\Users\hbath\Downloads\Drought2Prediction_SCORE.xlsx	12376	MAX	21

SAS Enterprise Miner Report

Node=Save Scored Data Summary

Node id = EMSave2
 Node label = Save Scored Data
 Meta path = lds6 => Part3 => Tree17 => MdlComp18 => MdlComp7 => MdlComp9 => Score => EMSave2
 Notes =

Node=Save Scored Data Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	EMSSave		Name	DroughtPredicted1Data		Train	Y	
AllObs	Y		OutObs	1000		Transaction	Y	
AllRoles	Y		Replace	Y		Type	XLSX	SAS7DBAT
DirectorySelector	C:\Users\hbath\Downloads		Score	Y		Validate	Y	
Lib			Test	Y				

Node=Save Scored Data Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL	4	PS T2M T2MDEW TS
INPUT	NOMINAL	2	state year
INPUT	ORDINAL	1	month

Node=Save Scored Data Data

Output Location	Total Observations	Saved Observations	Number of Variables
C:\Users\hbath\Downloads\DroughtPredicted1Data_TRAIN.xlsx	63331	MAX	26
C:\Users\hbath\Downloads\DroughtPredicted1Data_VALIDATE.xlsx	21110	MAX	26
C:\Users\hbath\Downloads\DroughtPredicted1Data_TEST.xlsx	21112	MAX	26
C:\Users\hbath\Downloads\DroughtPredicted1Data_SCORE.xlsx	12495	MAX	21

End of Report