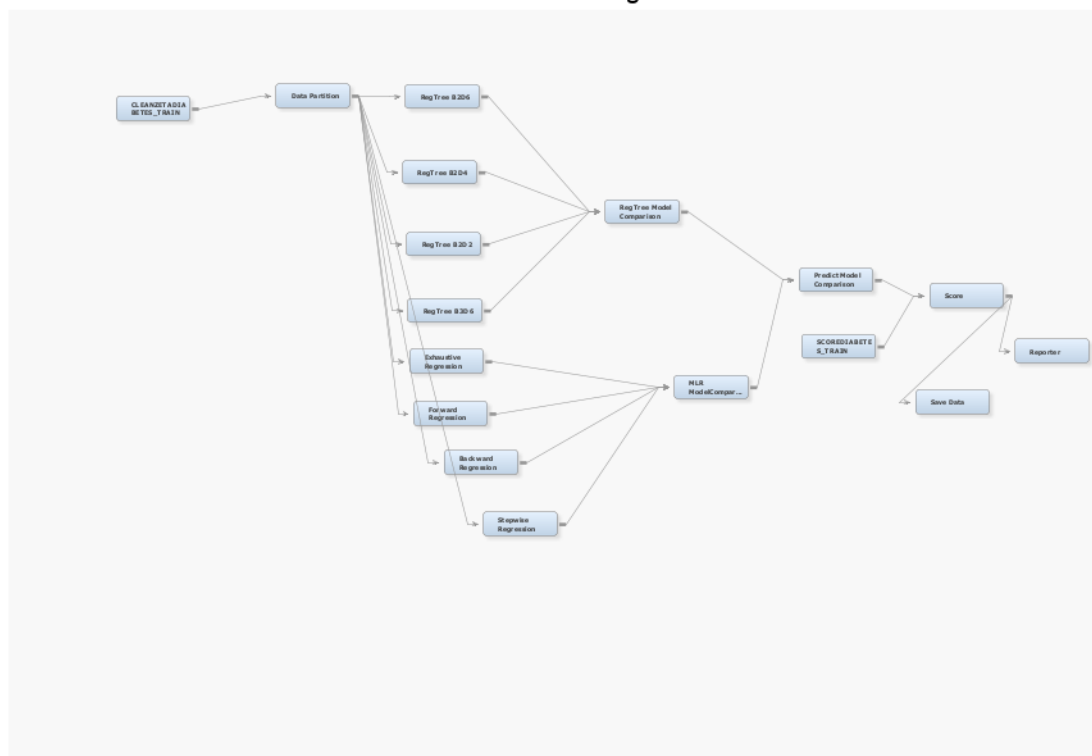# SAS Enterprise Miner Report

User   = shre2
Date   = 01:50:07 March 04
Project   = SV.PredictiveAnalysis
Diagram   = SV.Prediction

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=CLEANZETADIABETES_TRAIN
Summary

Node id = Ids3
Node label = CLEANZETADIABETES_TRAIN
Meta path = Ids3
Notes =

Node=CLEANZETADIABETES_TRAIN
Properties

Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	shre2	
ApplyIntervalLevelLowerLimit	Y		DsId	cleanzetadiabetestrain	
ApplyMaxClassLevels	Y		DsModifiedBy	shre2	
ApplyMaxPercentMissing	Y		DsModifyDate	2025129977.8	
CMeta	WORK.M12BVFD5		DsSampleName		
ComputeStatistics	N		DsSampleSize		
DBPassThrough	Y		DsSampleSizeType		
Data	ZETADATA.CLEANZETADIABETES_TRAIN		DsScope	LOCAL	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y	
DataSource	cleanzetadiabetestrain		IntervalLowerLimit	20	
DataSourceRole	RAW		Library	ZETADATA	
Description			MaxClassLevels	20	
DropMapVariables	Y		MaxPercentMissing	50	
DsCreateDate	2025129977.5		MetaAdvisor	BASIC	

Property	Value	Default
NBytes	37094400	.
NCols	22	.
NObs	200572	.
NewTable		
NewVariableRole	REJECT	
OutputType	VIEW	
Role	RAW	TRAIN
Sample	D	
SampleSizeObs	10000	
SampleSizePercent	20	
SampleSizeType	PERCENT	
Scope	LOCAL	
Segment		
Table	CLEANZETADIABETES_TRAIN	

Node=CLEANZETADIABETES_TRAIN
Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	CLEANZETADIABETES_TRAIN	Date Created	04Mar2024:00:00:32	Data Size	37094400
Data Type	DATA	Date Modified	04Mar2024:00:00:32	Role	RAW
Data Label		Number Rows	200572	Segment	
Engine	BASE	Number Columns	22	Data Library	ZETADATA

Node=CLEANZETADIABETES_TRAIN
Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
Age	Age	INPUT	INTERVAL	N	8	BEST.	
AnyHealthcare	AnyHealthcare	INPUT	BINARY	N	8	BEST.	
BMI	BMI	INPUT	INTERVAL	N	8	BEST.	
CholCheck	CholCheck	INPUT	BINARY	N	8	BEST.	
Diabetes_Prediction		TARGET	NOMINAL	C	11		
DiffWalk	DiffWalk	INPUT	BINARY	N	8	BEST.	
Education	Education	INPUT	ORDINAL	N	8	BEST.	
Fruits	Fruits	INPUT	BINARY	N	8	BEST.	
GenHlth	GenHlth	INPUT	ORDINAL	N	8	BEST.	
HeartDiseaseorAttack	HeartDiseaseorAttack	INPUT	BINARY	N	8	BEST.	
HighBP	HighBP	INPUT	BINARY	N	8	BEST.	
HighChol	HighChol	INPUT	BINARY	N	8	BEST.	
HvyAlcoholConsump	HvyAlcoholConsump	INPUT	BINARY	N	8	BEST.	
Income	Income	INPUT	ORDINAL	N	8	BEST.	
MentHlth	MentHlth	INPUT	ORDINAL	N	8	BEST.	
NoDocbcCost	NoDocbcCost	INPUT	BINARY	N	8	BEST.	
PhysActivity	PhysActivity	INPUT	BINARY	N	8	BEST.	
PhysHlth	PhysHlth	INPUT	ORDINAL	N	8	BEST.	
Sex	Sex	INPUT	BINARY	N	8	BEST.	
Smoker	Smoker	INPUT	BINARY	N	8	BEST.	
Stroke	Stroke	INPUT	BINARY	N	8	BEST.	
Veggies	Veggies	INPUT	BINARY	N	8	BEST.	

SAS Enterprise Miner Report

**Node=Data Partition
Summary**

Node id = Part
Node label = Data Partition
Meta path = Ids3 => Part
Notes =

**Node=Data Partition
Properties**

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

**Node=Data Partition
Variable Summary**

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth

SAS Enterprise Miner Report

Node=Exhaustive Regression
Summary

Node id = Reg
Node label = Exhaustive Regression
Meta path = Ids3 => Part => Reg
Notes =

Node=Exhaustive Regression
Properties

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

Node=Exhaustive Regression
Variable Summary

| Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth

Node=Exhaustive Regression
Model Fit Statistics

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	63558.08	.	.
Average Squared Error	0.07	0.07	0.07
Average Error Function	0.26	0.26	0.26
Degrees of Freedom for Error	160268.00	.	.
Model Degrees of Freedom	186.00	.	.

Target=Diabetes_Prediction Target Label=' '

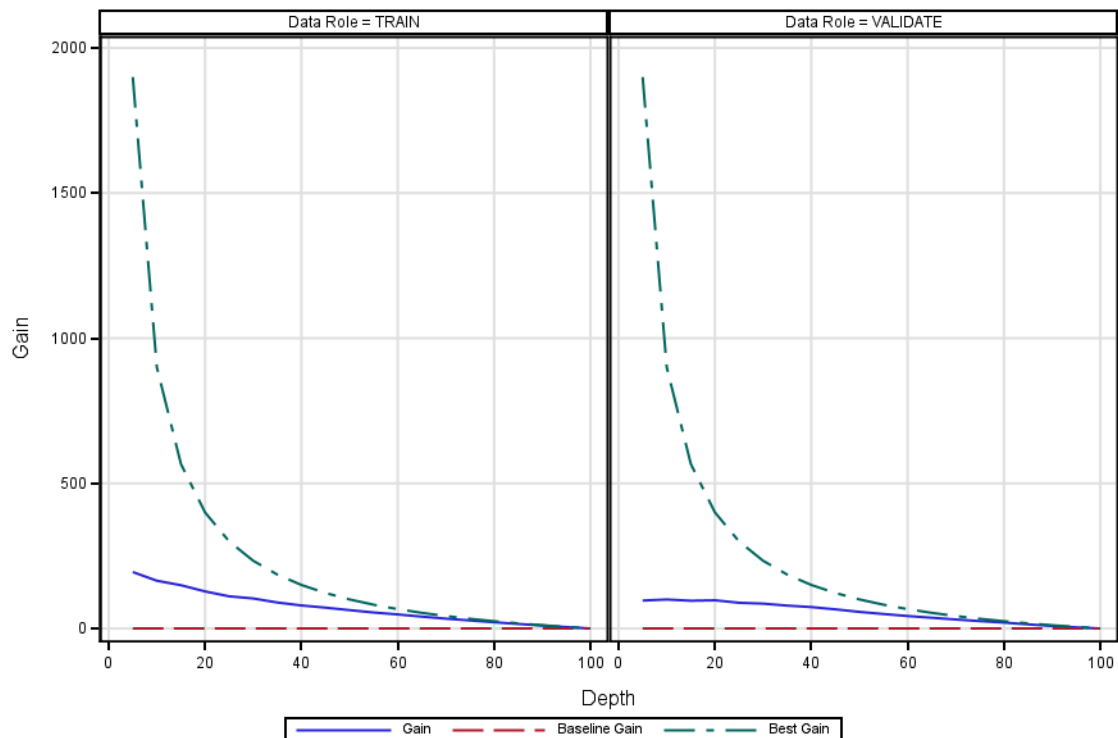| Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	160454.00	.	.
Divisor for ASE	240681.00	180507.00	180528.00
Error Function	63186.08	47745.74	47539.06
Final Prediction Error	0.07	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.07	0.07	0.07
Sum of Frequencies	80227.00	60169.00	60176.00
Number of Estimate Weights	186.00	.	.
Root Average Sum of Squares	0.27	0.27	0.27
Root Final Prediction Error	0.27	.	.
Root Mean Squared Error	0.27	0.27	0.27
Schwarz's Bayesian Criterion	65415.43	.	.
Sum of Squared Errors	17714.06	13322.68	13303.93
Sum of Case Weights Times Freq	240681.00	180507.00	180528.00
Misclassification Rate	0.15	0.15	0.15

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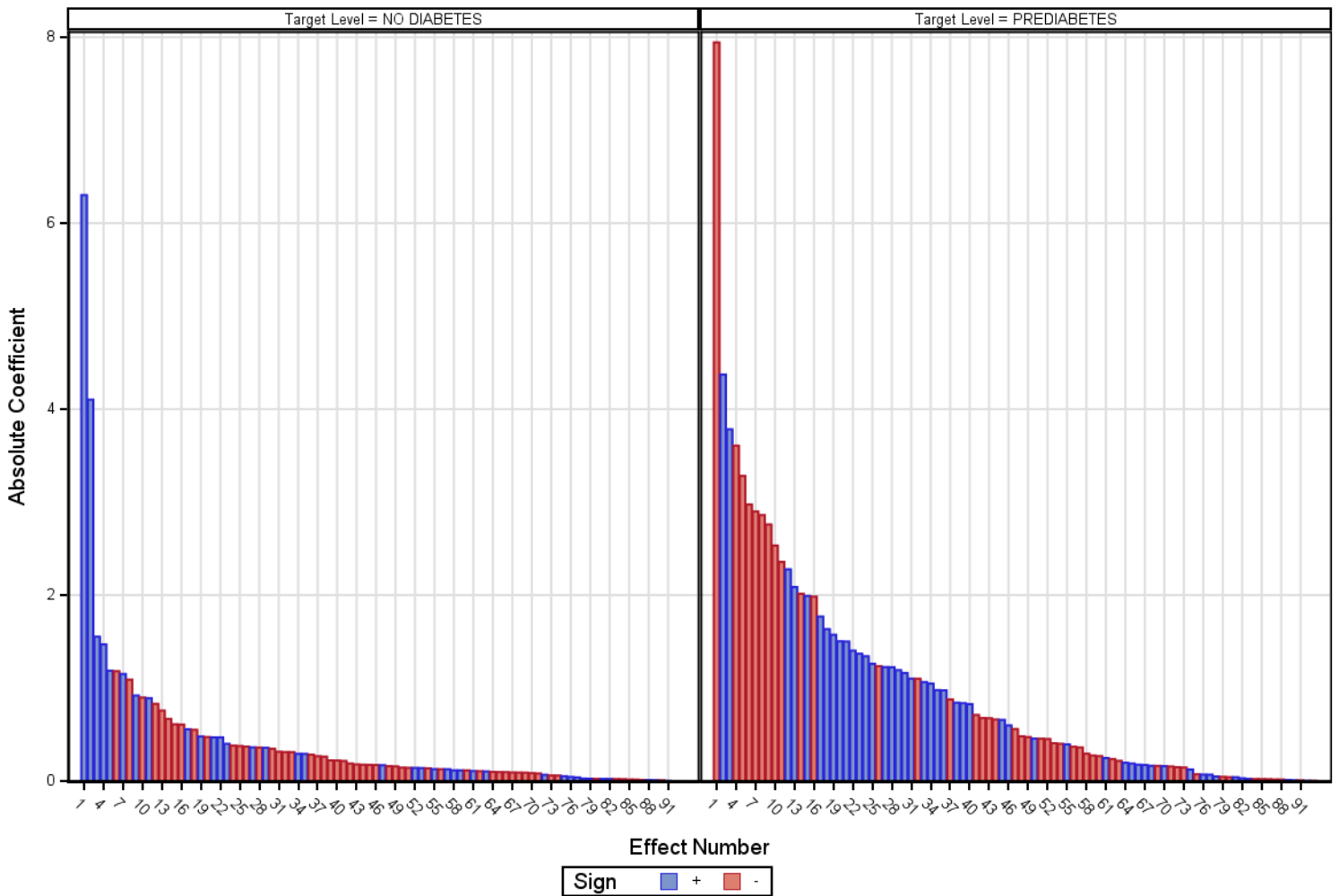
SAS Enterprise Miner Report
Node=Exhaustive Regression
Model Assessment Scores where TARGET='Diabetes_Prediction'

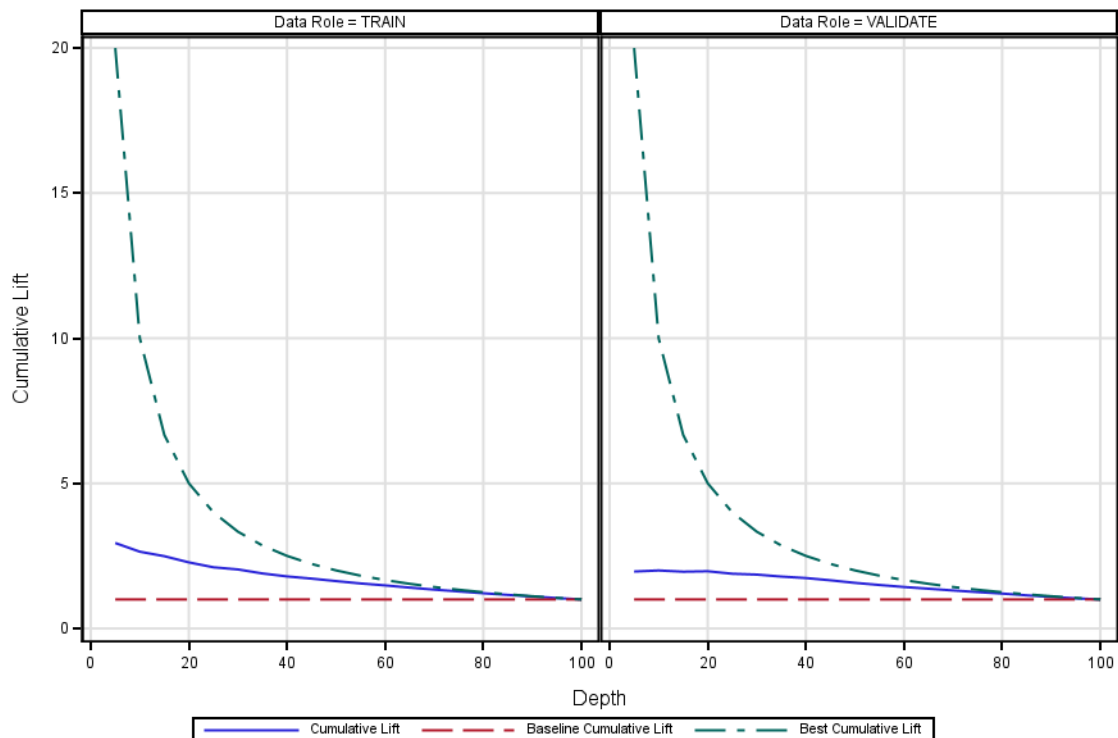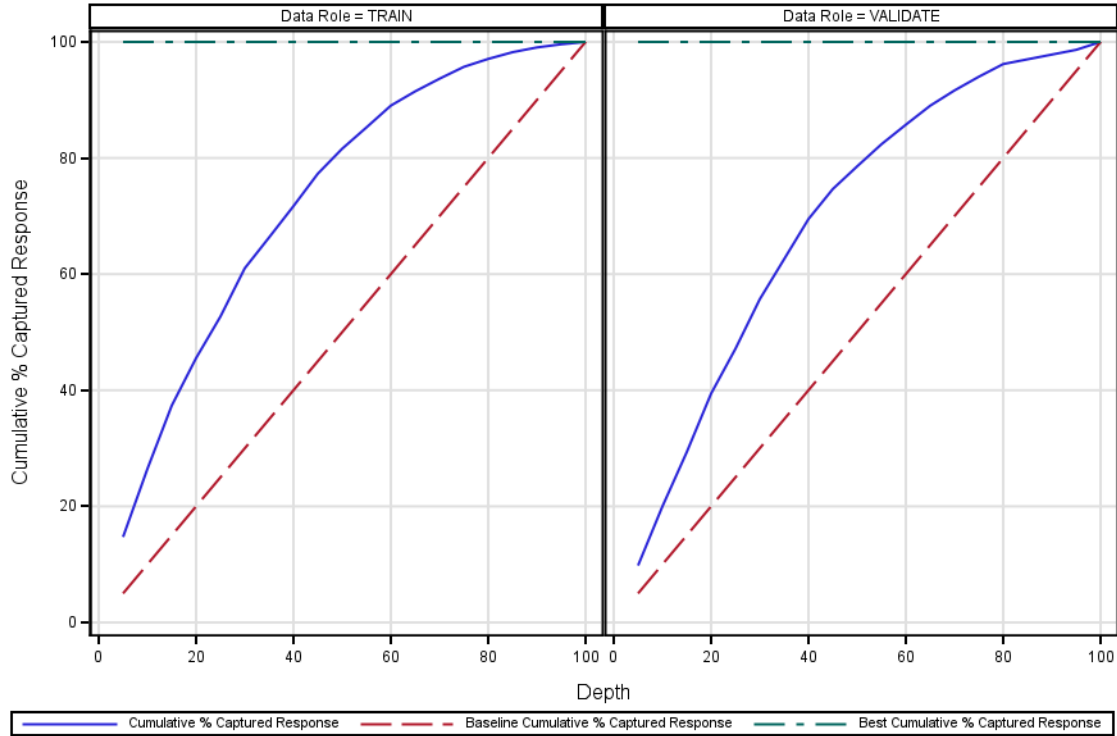**SAS Enterprise Miner Report**
Node=Exhaustive Regression
Model Assessment Scores where TARGET='Diabetes_Prediction'

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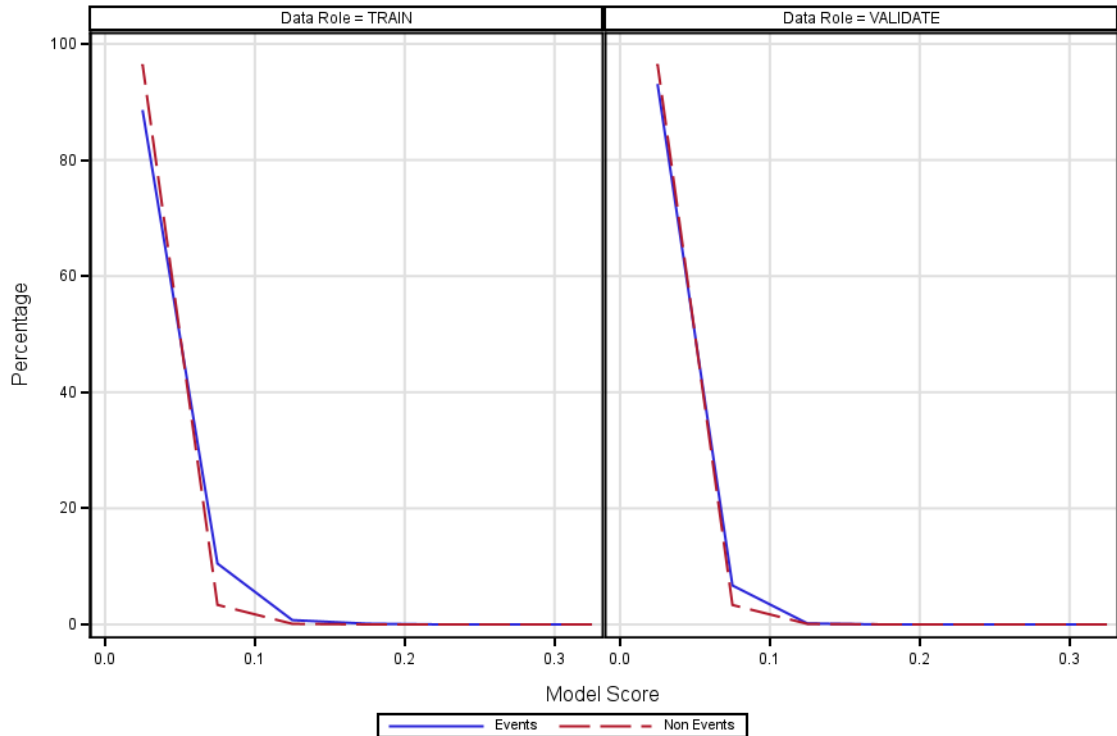

SAS Enterprise Miner Report
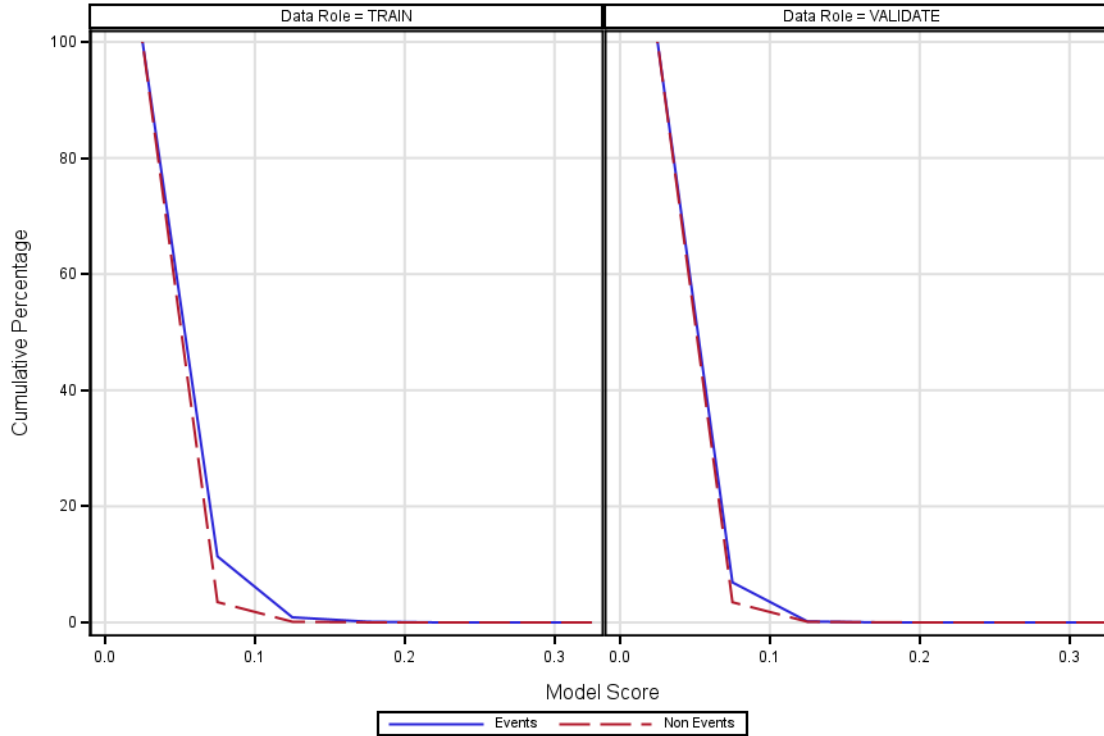Node=Exhaustive Regression
Score Distributions where TARGET='Diabetes_Prediction'

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

Node=Exhaustive Regression
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.30-0.35	0	0.0000	0.0025	0.000	0.003
0.25-0.30	0	0.0000	0.0013	0.000	0.004
0.20-0.25	0	0.0000	0.0038	0.000	0.008
0.15-0.20	2	0.1363	0.0102	0.136	0.018
0.10-0.15	11	0.7498	0.1117	0.886	0.130
0.05-0.10	154	10.4976	3.3761	11.384	3.506
0.00-0.05	1300	88.6162	96.4944	100.000	100.000

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.30-0.35	0	0.0000	0.0034	0.000	0.003
0.25-0.30	0	0.0000	0.0017	0.000	0.005
0.20-0.25	0	0.0000	0.0051	0.000	0.010
0.15-0.20	0	0.0000	0.0135	0.000	0.024
0.10-0.15	2	0.1817	0.1016	0.182	0.125
0.05-0.10	74	6.7212	3.3571	6.903	3.482
0.00-0.05	1025	93.0972	96.5176	100.000	100.000

SAS Enterprise Miner Report

Node=Forward Regression
Summary

Node id = Reg2
Node label = Forward Regression
Meta path = Ids3 => Part => Reg2
Notes =

Node=Forward Regression
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	Regression		Force	0		PolynomialDegree	2	
AbsConvValue	-1.34078E154	-7.237006E75	GConvTimes	1		PrintDesignMatrix	N	
AbsFTime	1		GConvValue	1E-6		Rule	NONE	
AbsFValue	0		Hierarchy	CLASS		SASSPDS	N	
AbsGTime	1		InputCoding	DEVIATION		SelectionCriterion	DEFAULT	
AbsGValue	0.00001		Interactions			SelectionDefault	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	.		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=Forward Regression
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth

Node=Forward Regression
Model Fit Statistics

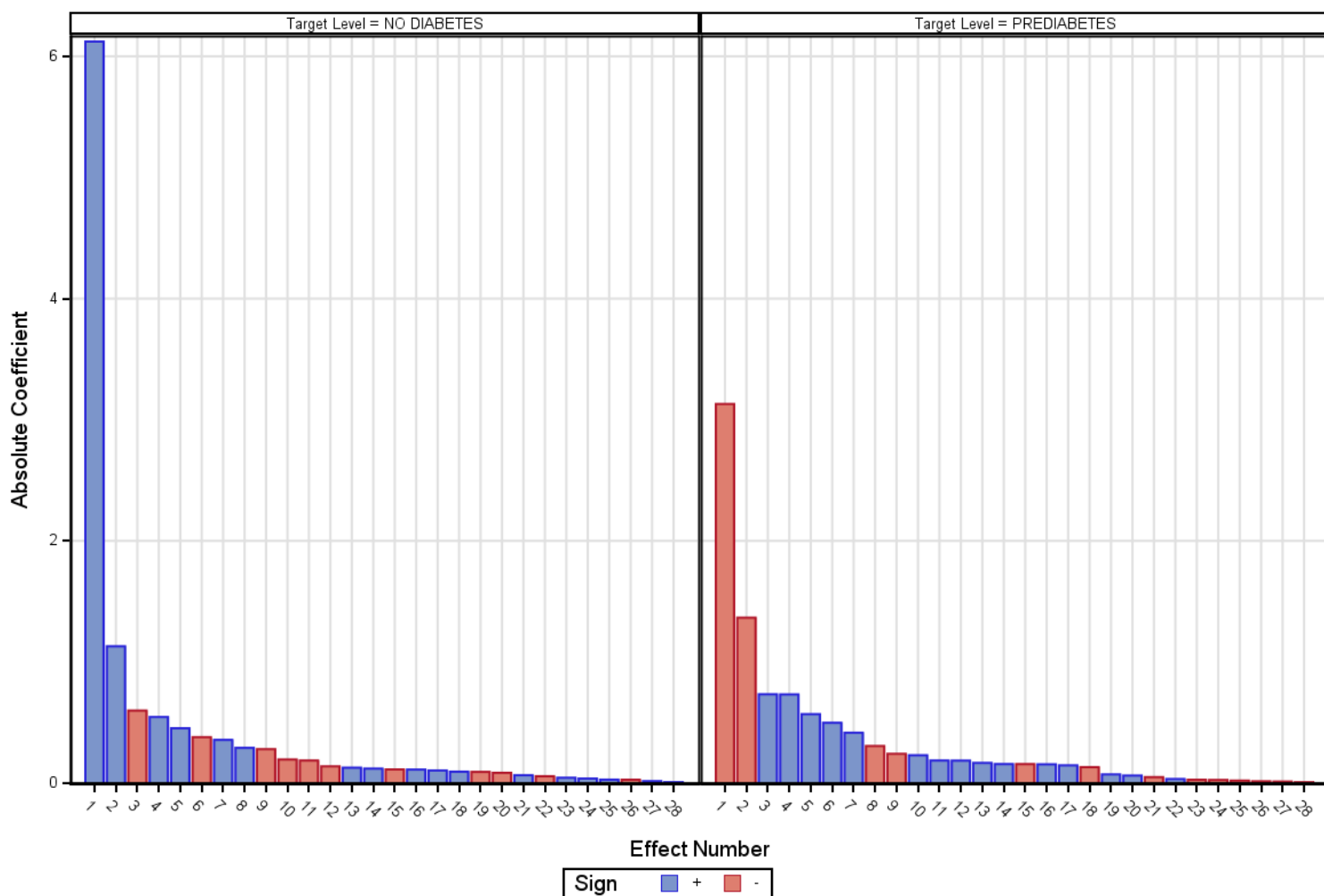Target=Diabetes_Prediction Target Label=' '

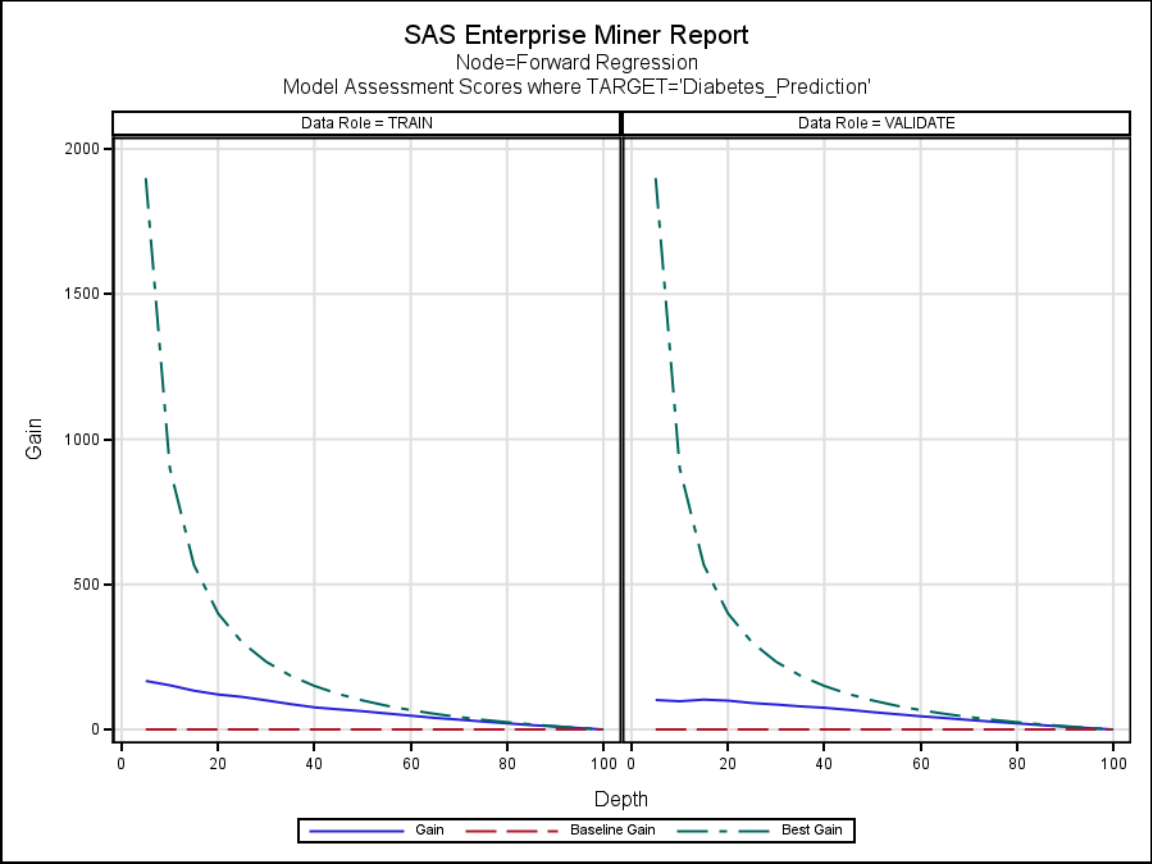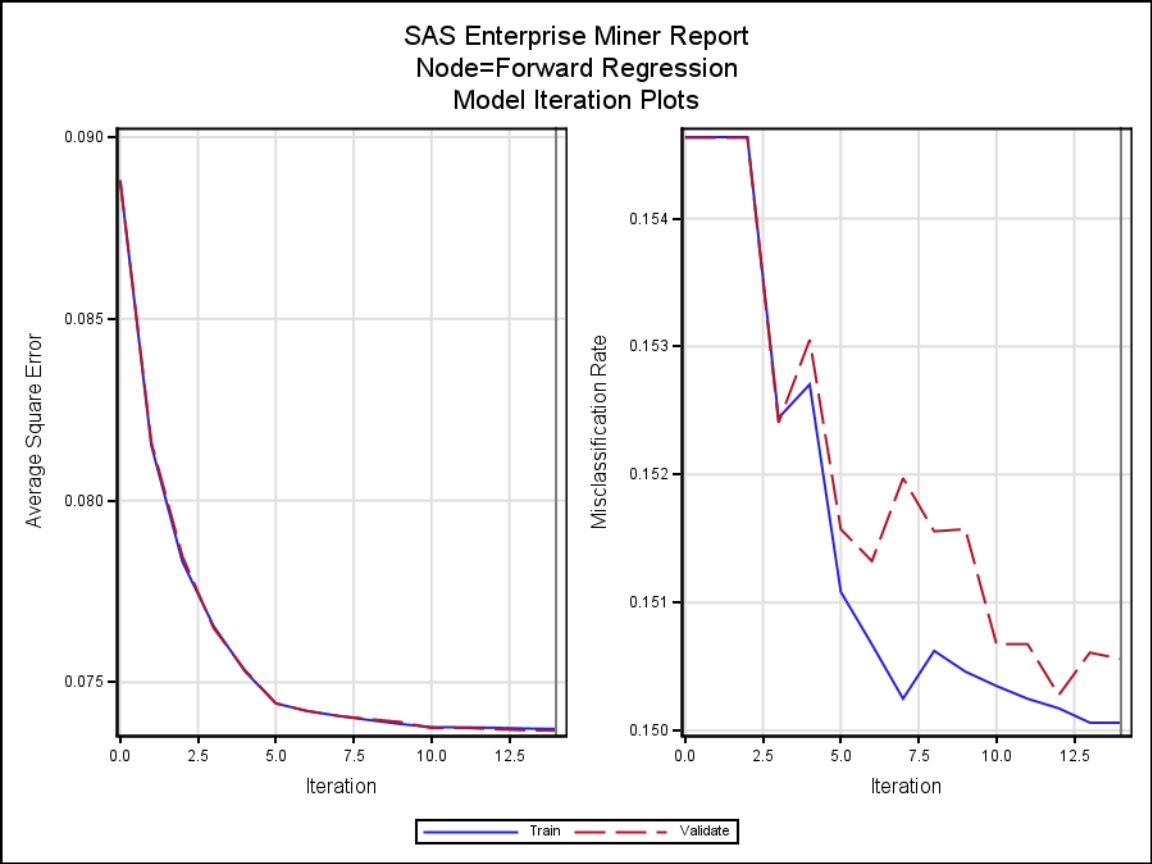| Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	63457.86	.	.
Average Squared Error	0.07	0.07	0.07
Average Error Function	0.26	0.26	0.26
Degrees of Freedom for Error	160398.00	.	.
Model Degrees of Freedom	56.00	.	.

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	160454.00	.	.
Divisor for ASE	240681.00	180507.00	180528.00
Error Function	63345.86	47578.87	47439.71
Final Prediction Error	0.07	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.07	0.07	0.07
Sum of Frequencies	80227.00	60169.00	60176.00
Number of Estimate Weights	56.00	.	.
Root Average Sum of Squares	0.27	0.27	0.27
Root Final Prediction Error	0.27	.	.
Root Mean Squared Error	0.27	0.27	0.27
Schwarz's Bayesian Criterion	64017.07	.	.
Sum of Squared Errors	17742.41	13298.36	13290.51
Sum of Case Weights Times Freq	240681.00	180507.00	180528.00
Misclassification Rate	0.15	0.15	0.15

SAS Enterprise Miner Report
Node=Forward Regression
Regression Model Effects

SAS Enterprise Miner Report
Node=Forward Regression
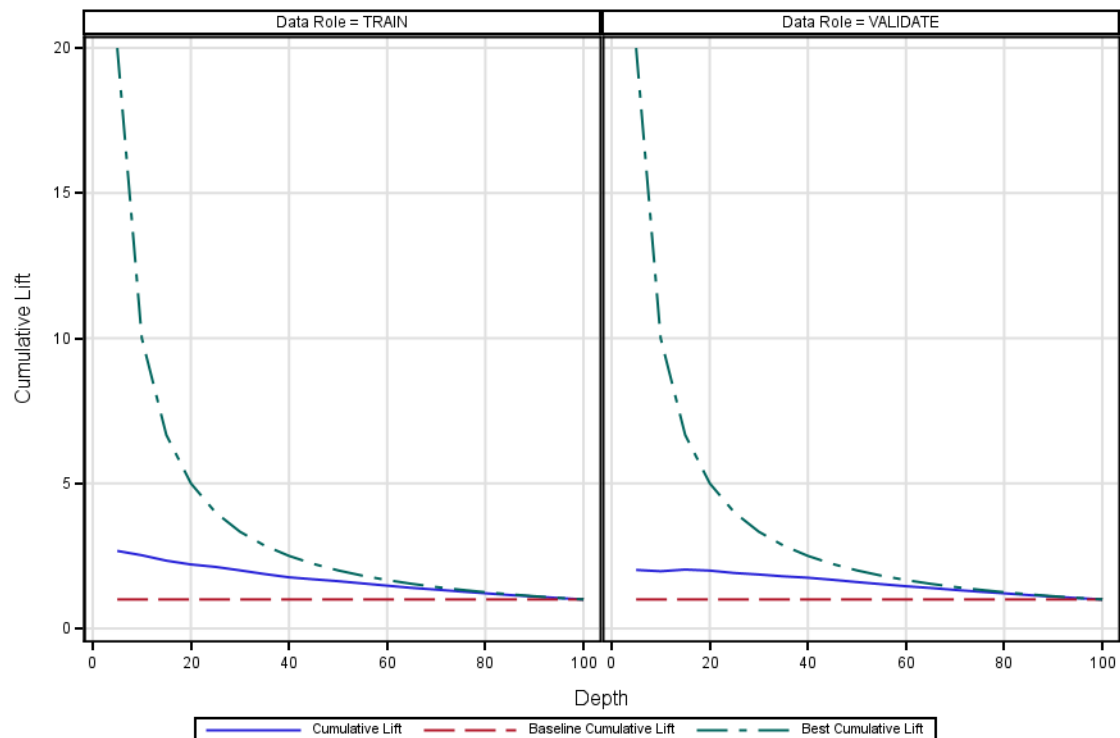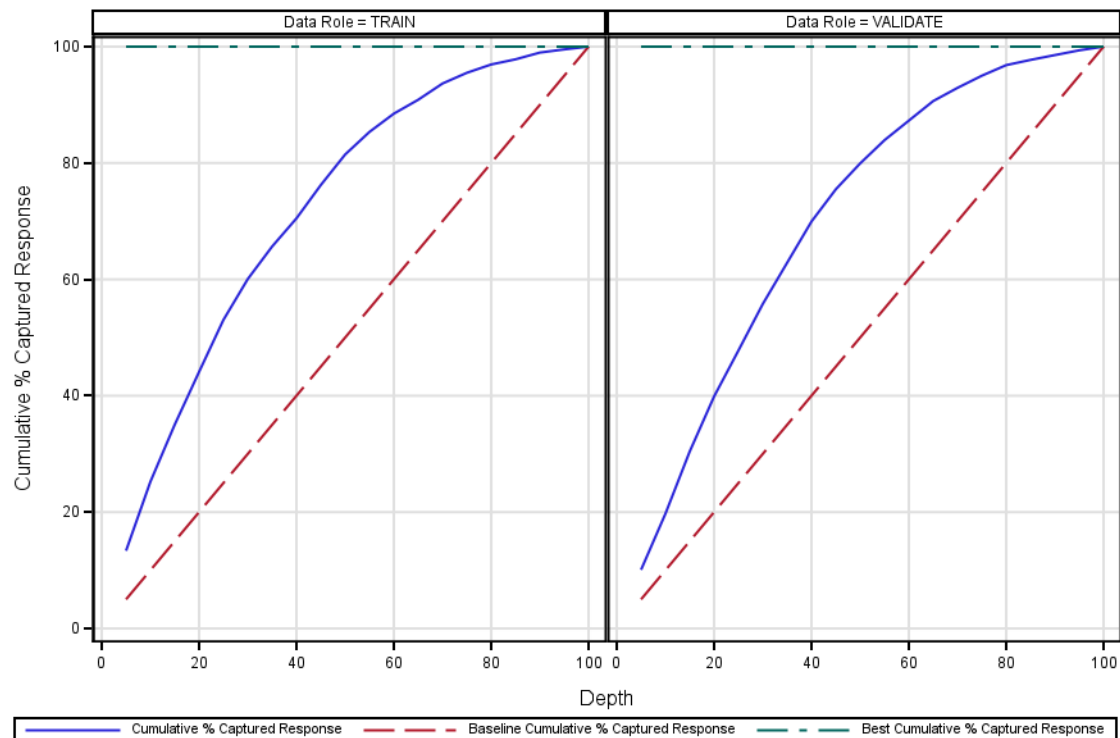Model Iteration Plots

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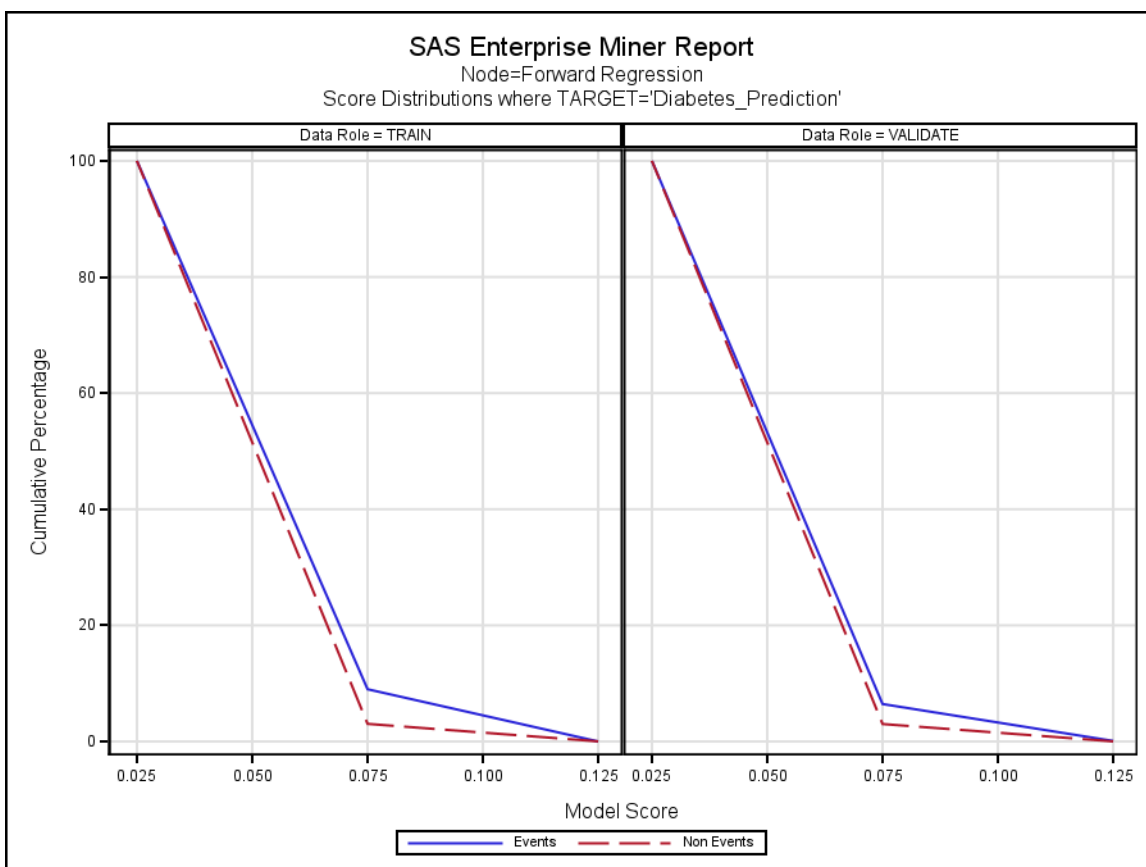Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=Forward Regression
Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=Forward Regression
Model Assessment Scores where TARGET='Diabetes_Prediction'

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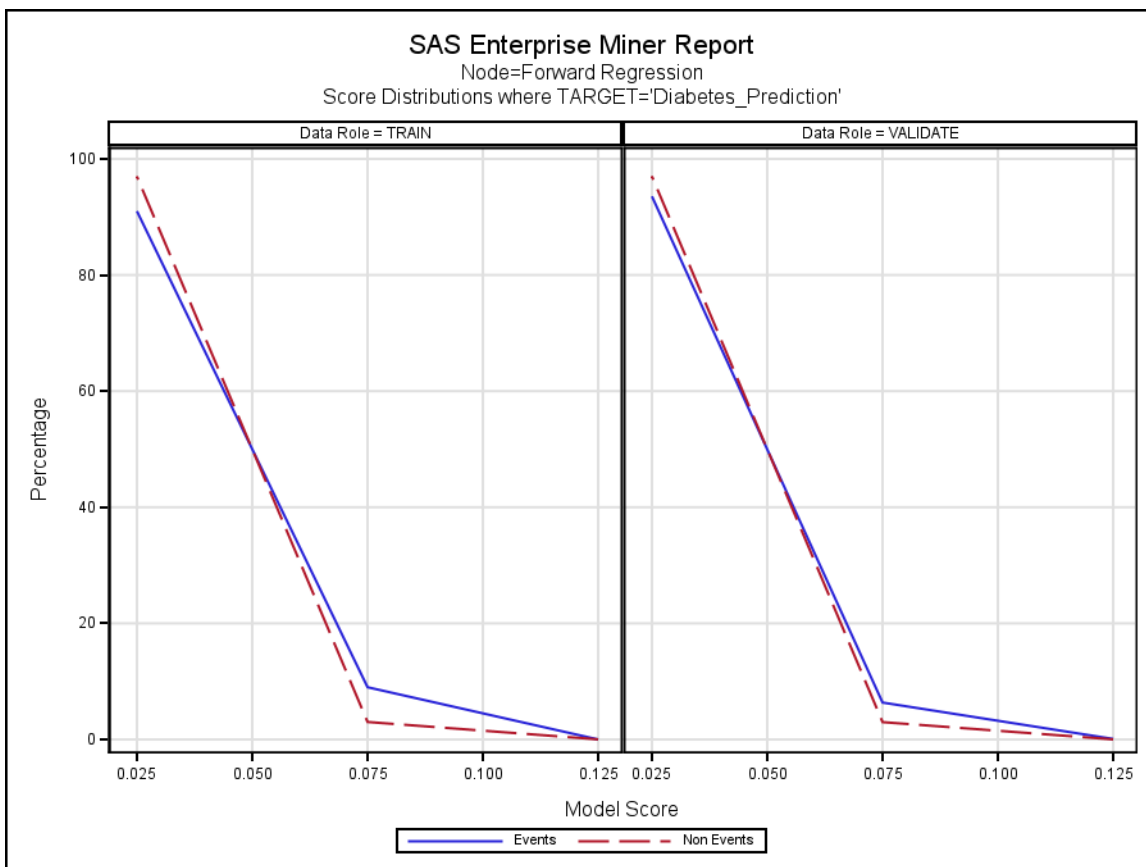Score Distributions where TARGET='Diabetes_Prediction'

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

Node=Forward Regression
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	0	0.0000	0.0203	0.000	0.020
0.05-0.10	132	8.9980	3.0142	8.998	3.035
0.00-0.05	1335	91.0020	96.9655	100.000	100.000

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	1	0.0908	0.0169	0.091	0.017
0.05-0.10	70	6.3579	2.9881	6.449	3.005
0.00-0.05	1030	93.5513	96.9950	100.000	100.000

SAS Enterprise Miner Report

Node=Backward Regression
Summary

Node id = Reg3
Node label = Backward Regression
Meta path = Ids3 => Part => Reg3
Notes =

Node=Backward Regression
Properties

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

Node=Backward Regression
Variable Summary

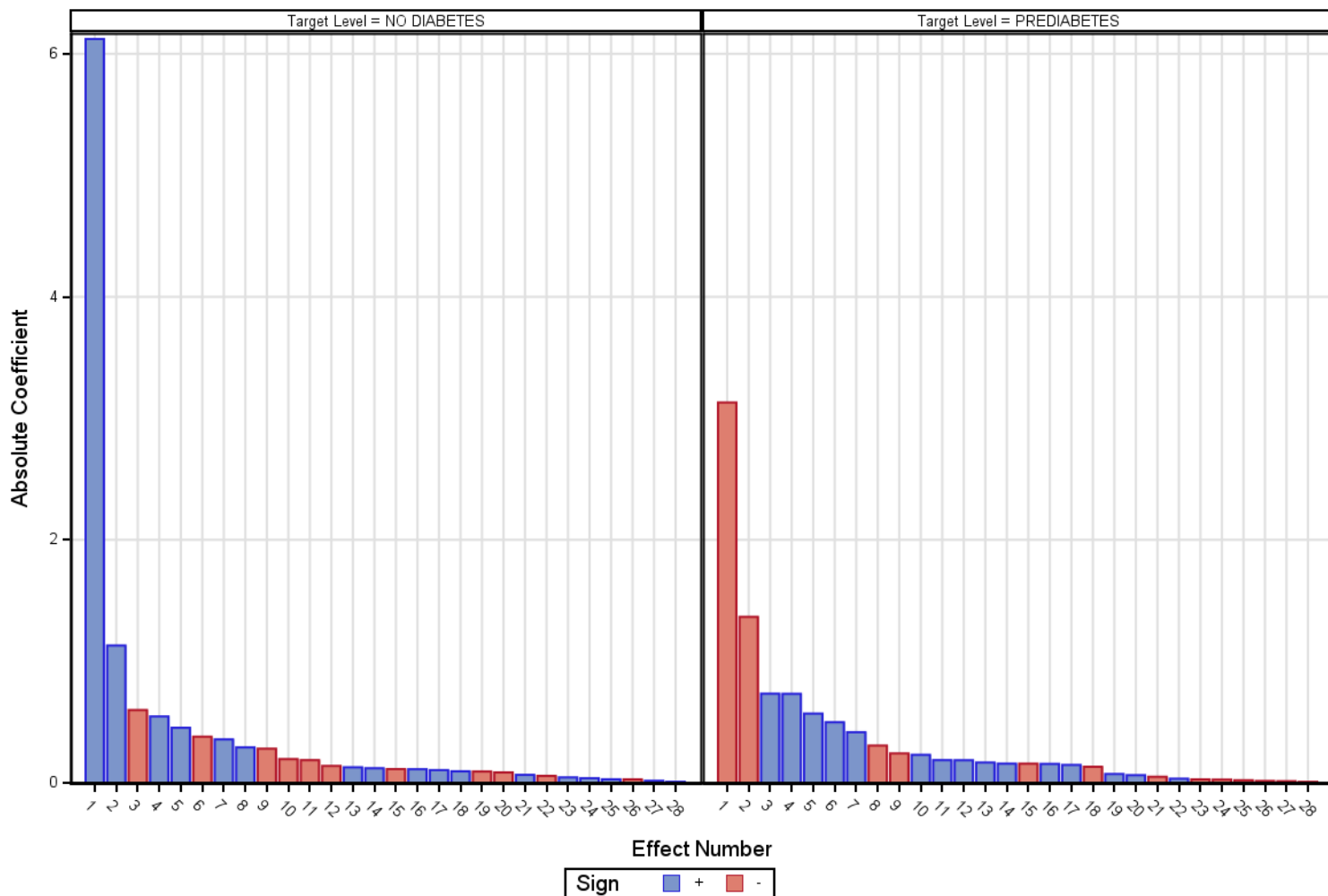| Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth

Node=Backward Regression
Model Fit Statistics
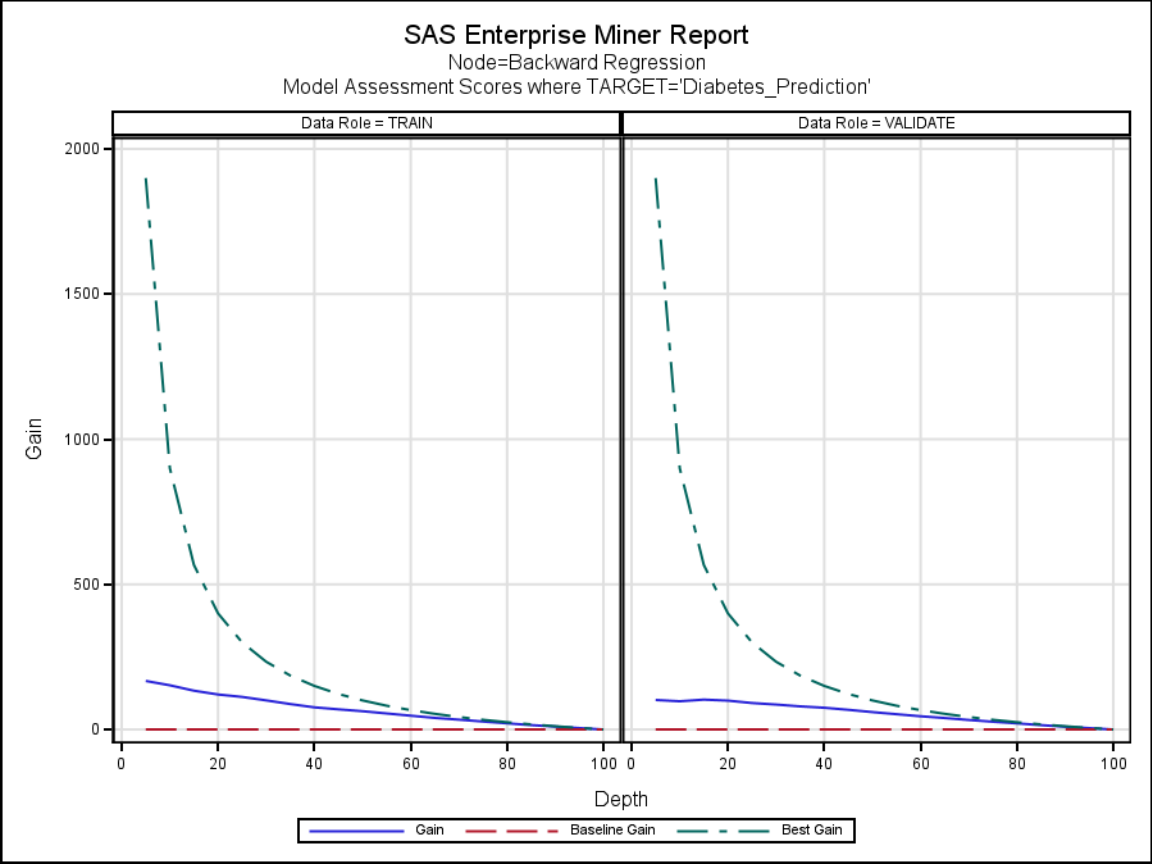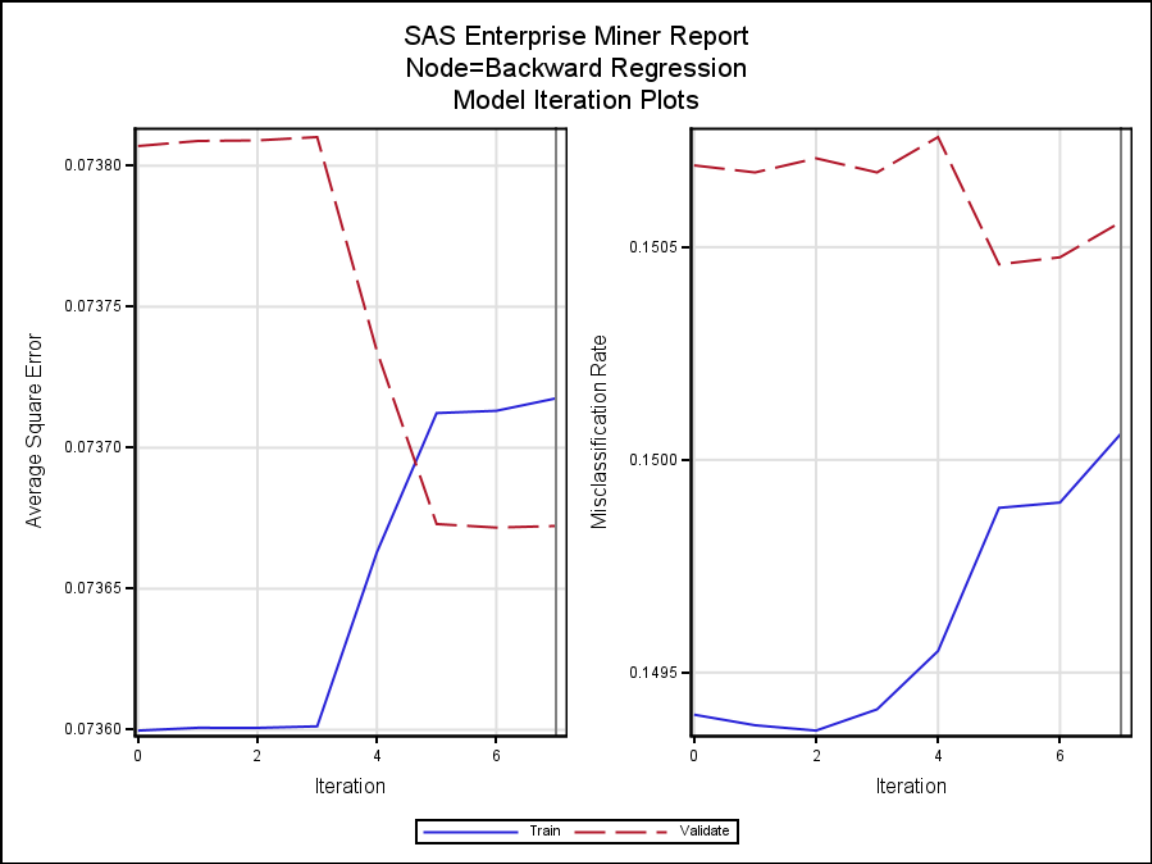
Target=Diabetes_Prediction Target Label=' '

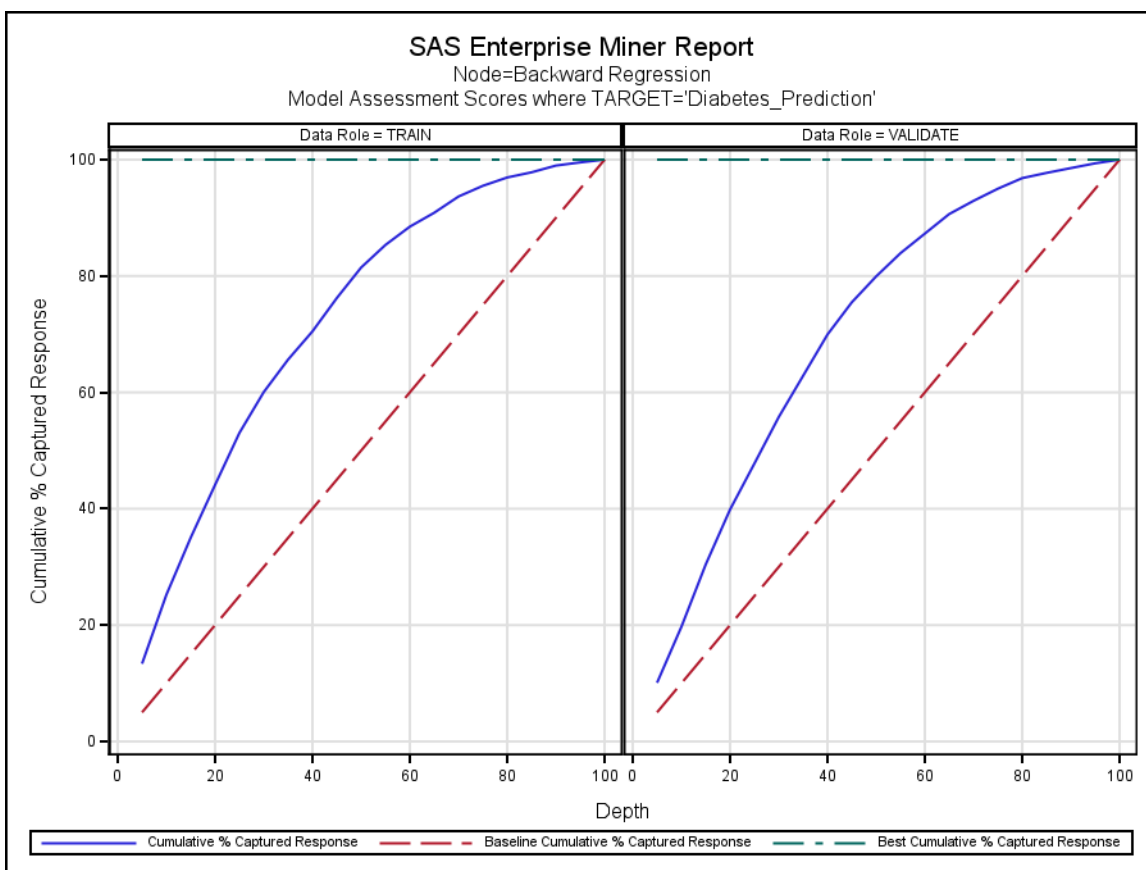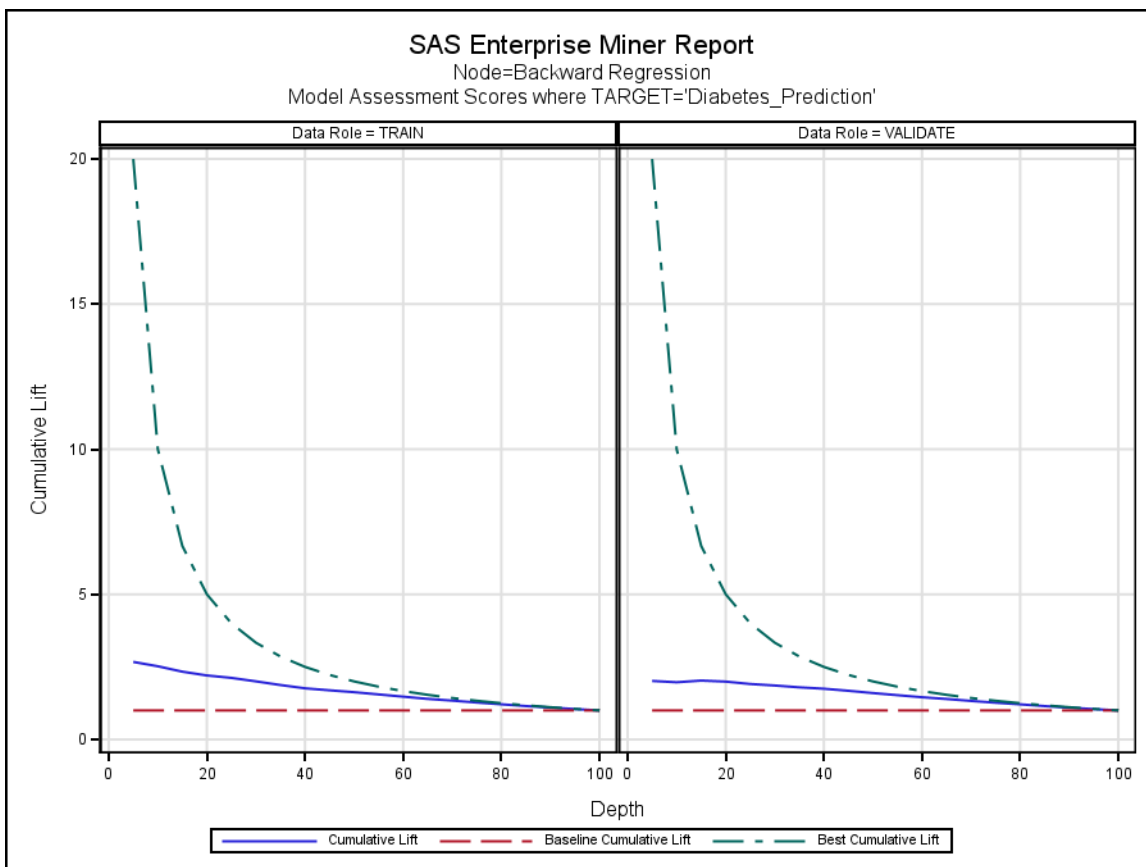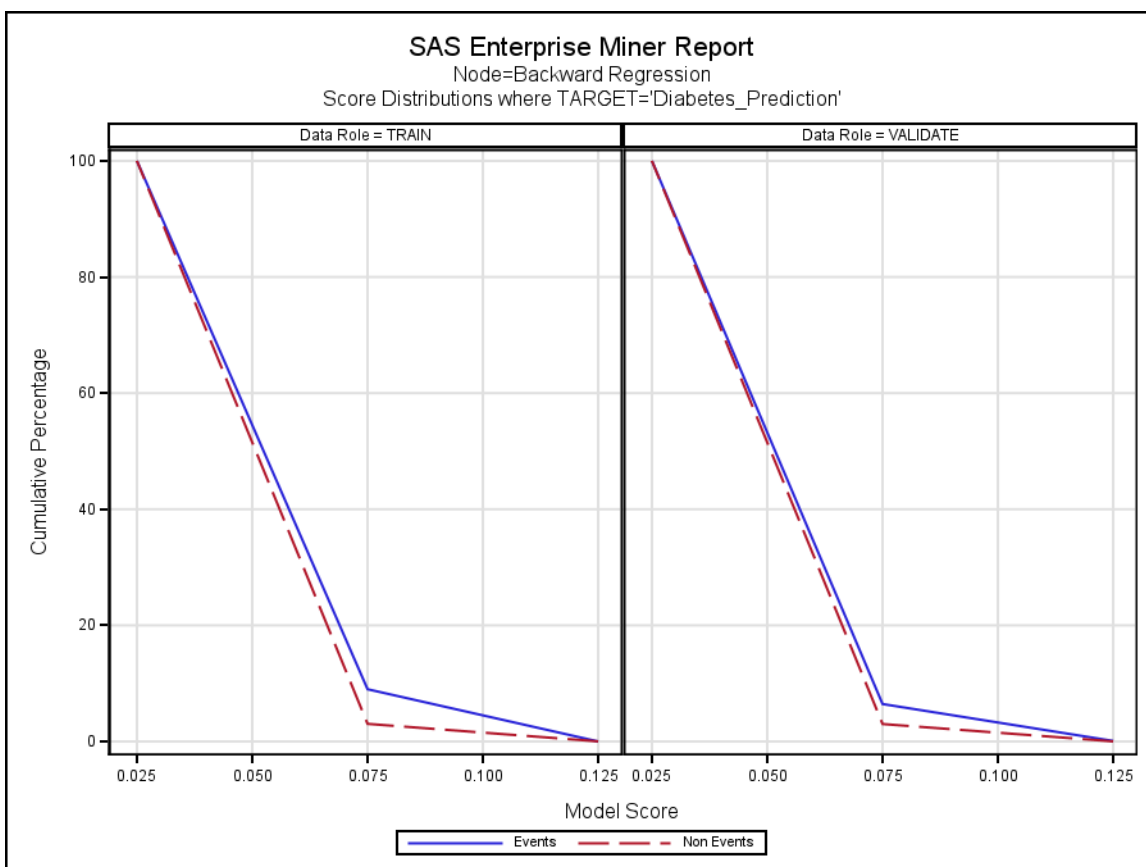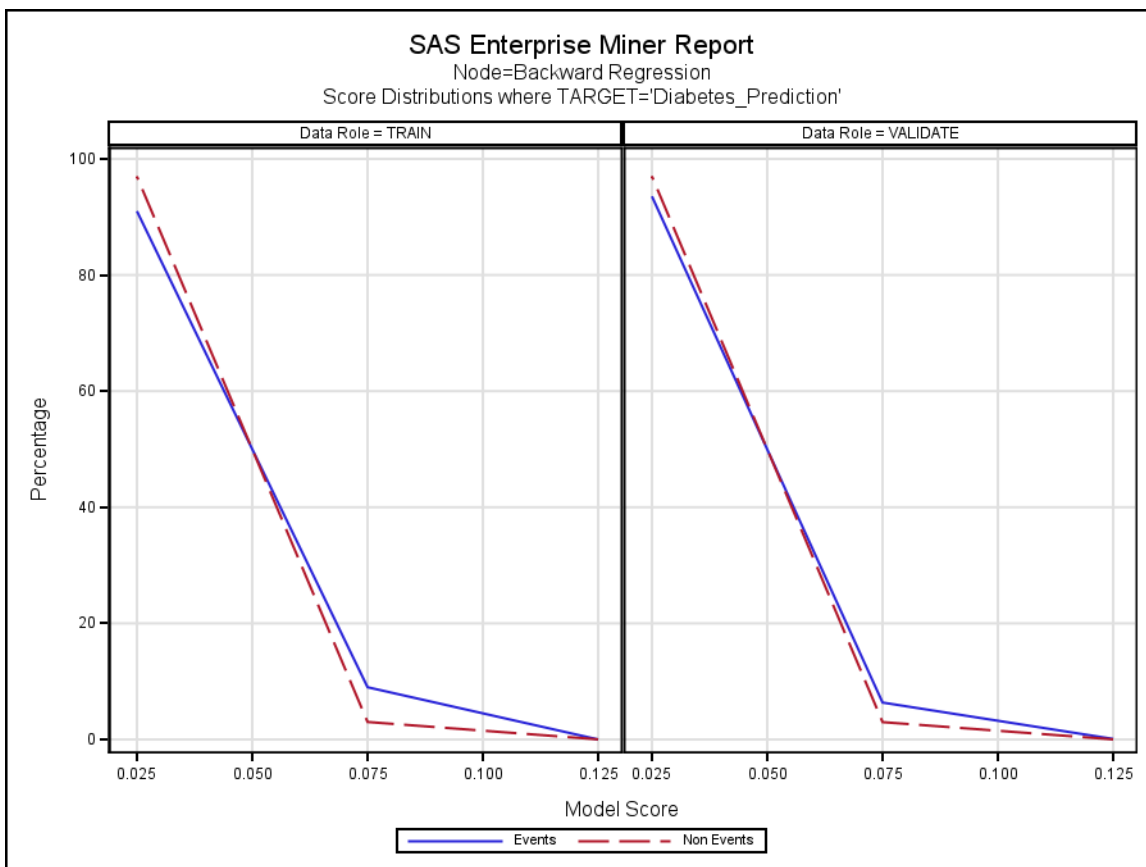| Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	63457.86	.	.
Average Squared Error	0.07	0.07	0.07
Average Error Function	0.26	0.26	0.26
Degrees of Freedom for Error	160398.00	.	.
Model Degrees of Freedom	56.00	.	.

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	160454.00	.	.
Divisor for ASE	240681.00	180507.00	180528.00
Error Function	63345.86	47578.87	47439.71
Final Prediction Error	0.07	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.07	0.07	0.07
Sum of Frequencies	80227.00	60169.00	60176.00
Number of Estimate Weights	56.00	.	.
Root Average Sum of Squares	0.27	0.27	0.27
Root Final Prediction Error	0.27	.	.
Root Mean Squared Error	0.27	0.27	0.27
Schwarz's Bayesian Criterion	64017.07	.	.
Sum of Squared Errors	17742.41	13298.36	13290.51
Sum of Case Weights Times Freq	240681.00	180507.00	180528.00
Misclassification Rate	0.15	0.15	0.15

SAS Enterprise Miner Report
Node=Backward Regression
Regression Model Effects

SAS Enterprise Miner Report
Node=Backward Regression
Model Iteration Plots

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

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

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

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

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

Node=Backward Regression
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	0	0.0000	0.0203	0.000	0.020
0.05-0.10	132	8.9980	3.0142	8.998	3.035
0.00-0.05	1335	91.0020	96.9655	100.000	100.000

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	1	0.0908	0.0169	0.091	0.017
0.05-0.10	70	6.3579	2.9881	6.449	3.005
0.00-0.05	1030	93.5513	96.9950	100.000	100.000

SAS Enterprise Miner Report

Node=Stepwise Regression
Summary

Node id = Reg4
Node label = Stepwise Regression
Meta path = lds3 => Part => Reg4
Notes =

Node=Stepwise Regression
Properties

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

Node=Stepwise Regression
Variable Summary

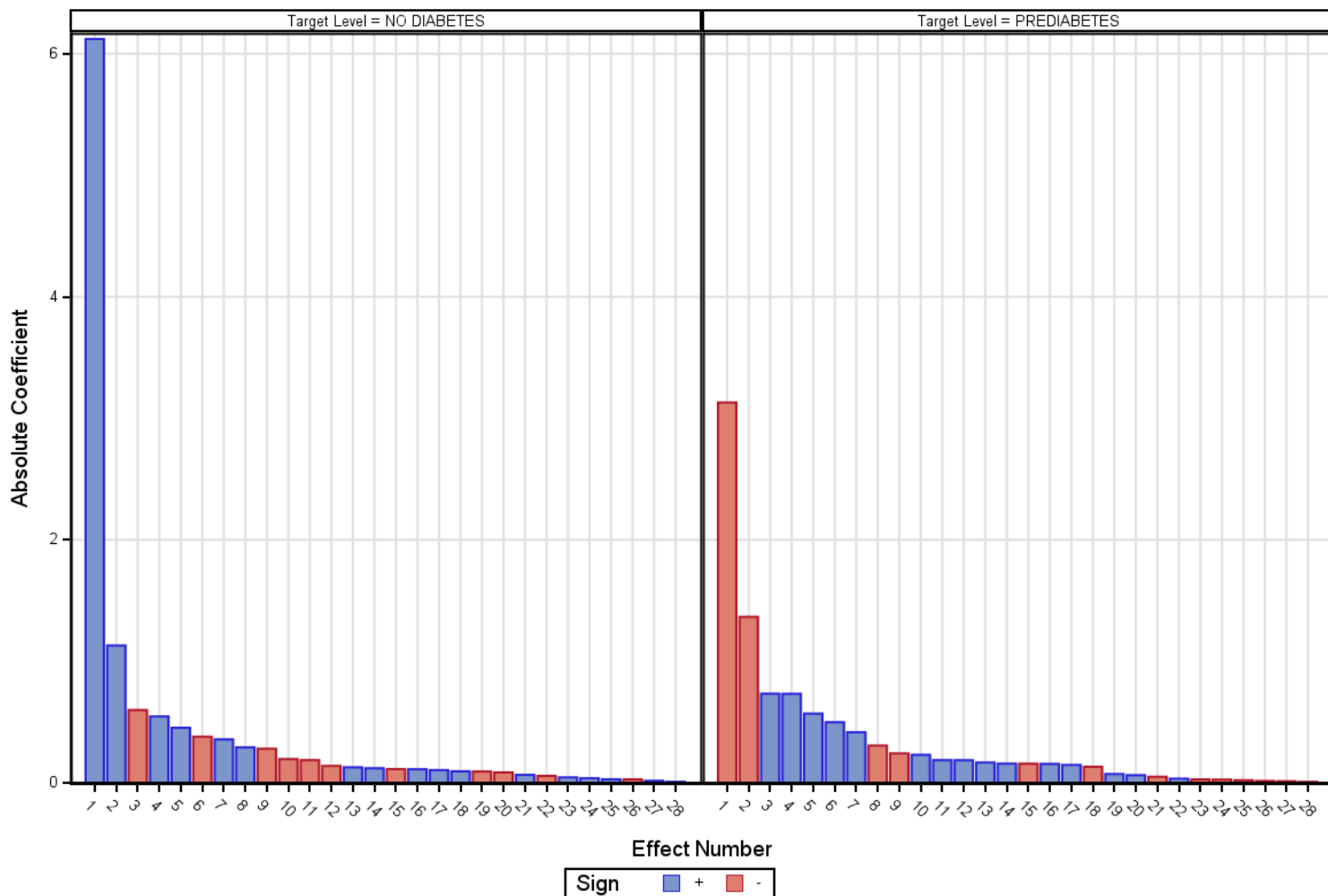| Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth

Node=Stepwise Regression
Model Fit Statistics
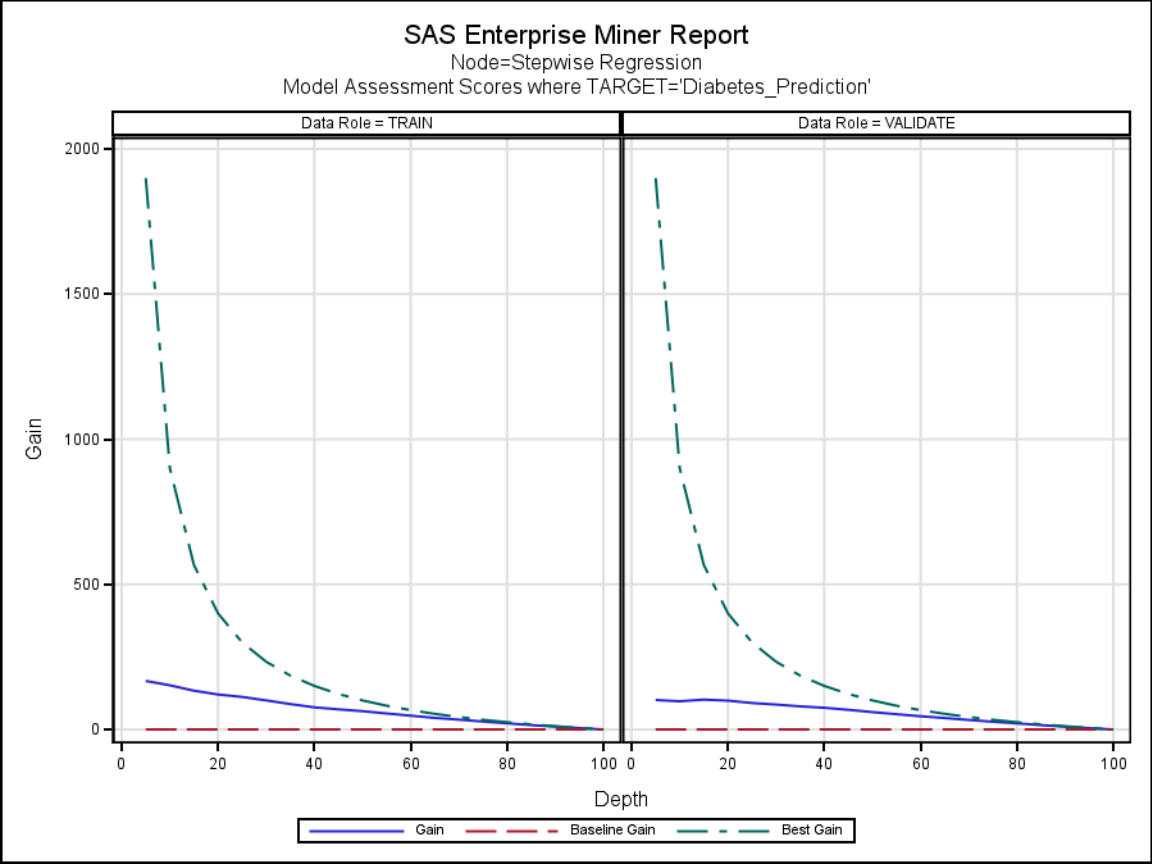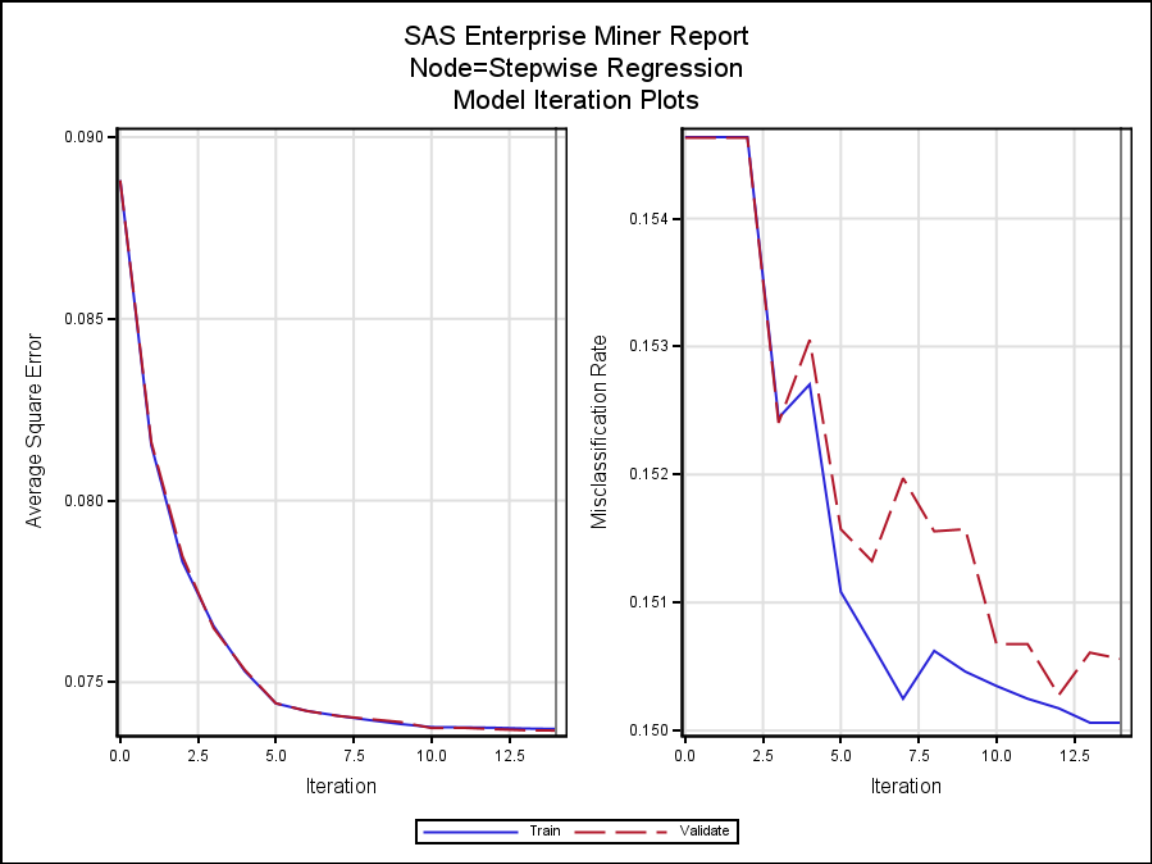
Target=Diabetes_Prediction Target Label=' '

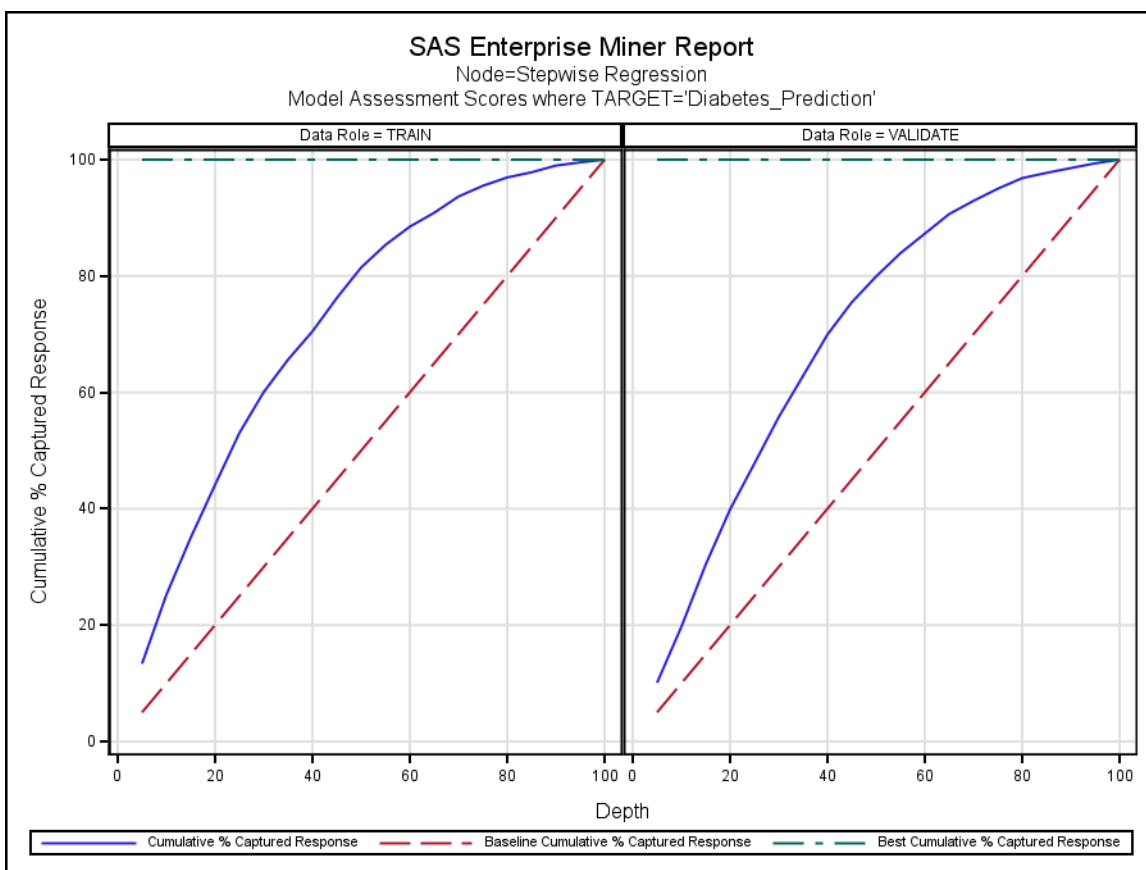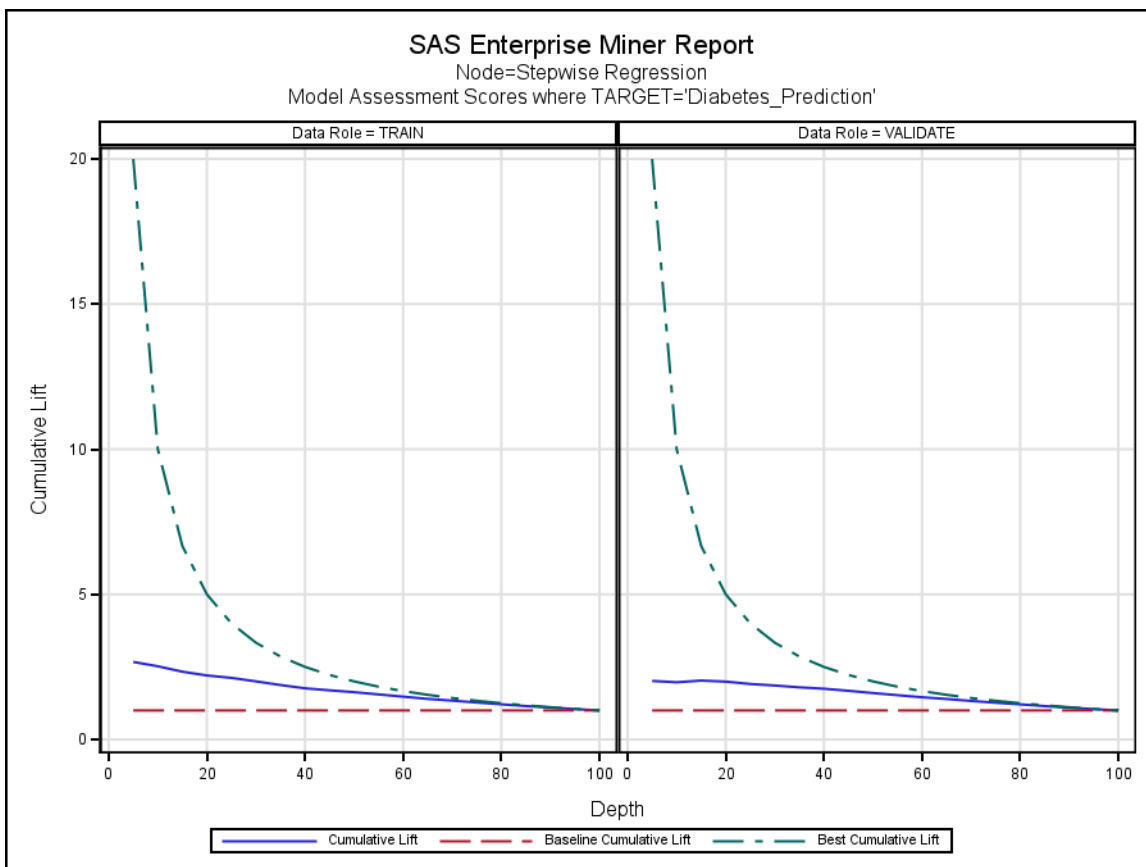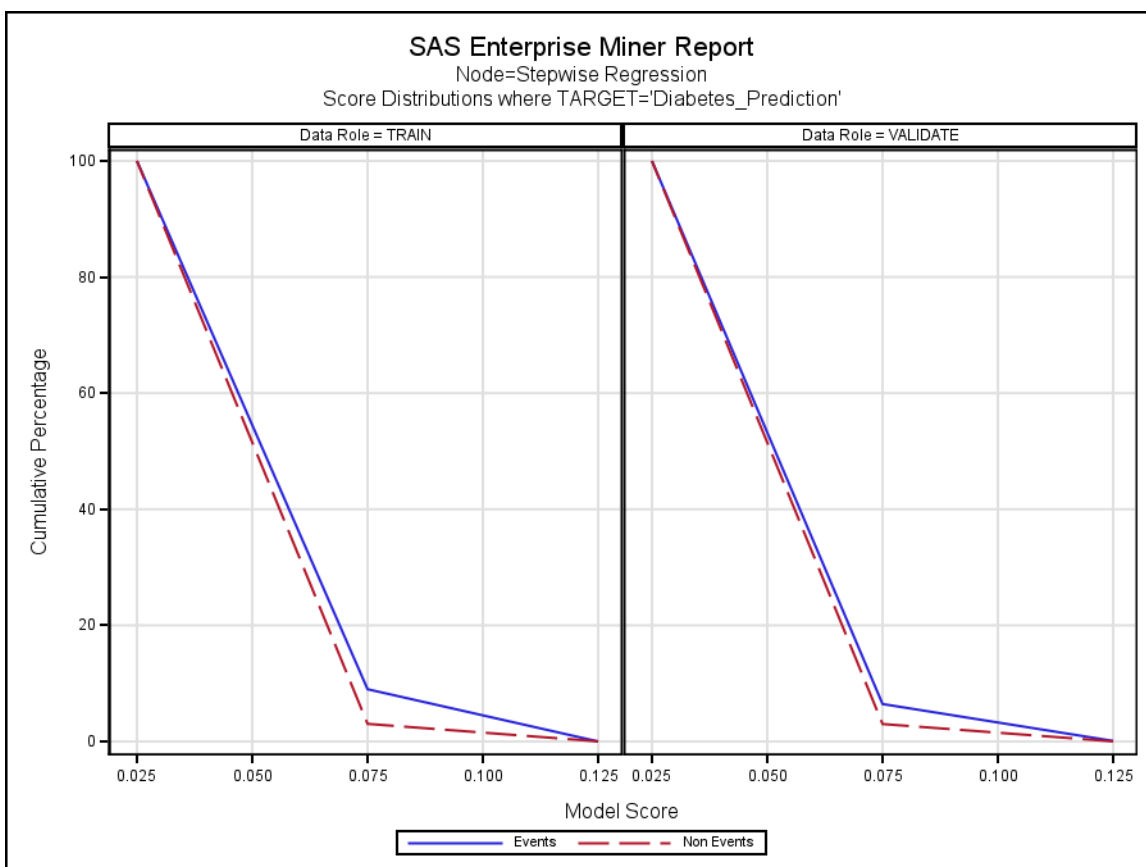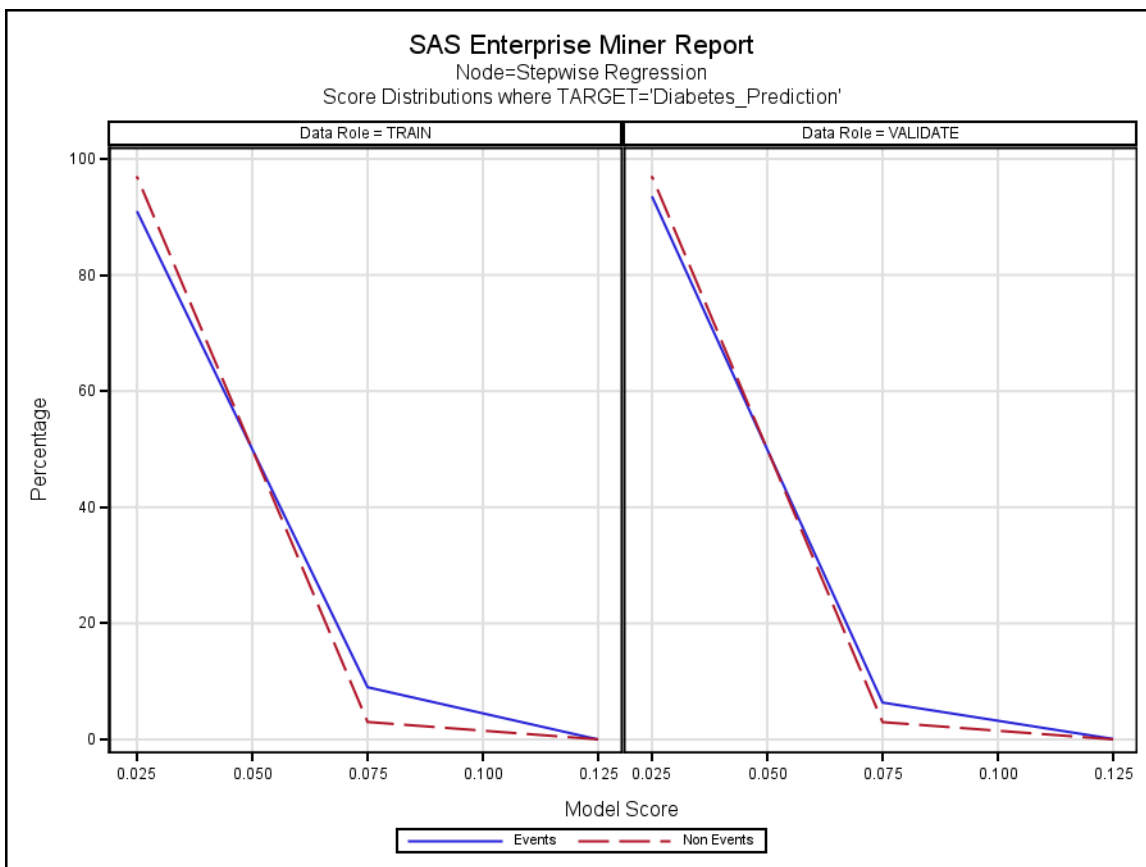| Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	63457.86	.	.
Average Squared Error	0.07	0.07	0.07
Average Error Function	0.26	0.26	0.26
Degrees of Freedom for Error	160398.00	.	.
Model Degrees of Freedom	56.00	.	.

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Total Degrees of Freedom	160454.00	.	.
Divisor for ASE	240681.00	180507.00	180528.00
Error Function	63345.86	47578.87	47439.71
Final Prediction Error	0.07	.	.
Maximum Absolute Error	1.00	1.00	1.00
Mean Square Error	0.07	0.07	0.07
Sum of Frequencies	80227.00	60169.00	60176.00
Number of Estimate Weights	56.00	.	.
Root Average Sum of Squares	0.27	0.27	0.27
Root Final Prediction Error	0.27	.	.
Root Mean Squared Error	0.27	0.27	0.27
Schwarz's Bayesian Criterion	64017.07	.	.
Sum of Squared Errors	17742.41	13298.36	13290.51
Sum of Case Weights Times Freq	240681.00	180507.00	180528.00
Misclassification Rate	0.15	0.15	0.15

SAS Enterprise Miner Report
Node=Stepwise Regression
Regression Model Effects

SAS Enterprise Miner Report
Node=Stepwise Regression
Model Iteration Plots

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

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

Data Role = TRAIN	Data Role = VALIDATE

Cumulative Lift

Depth

Legend: —— Cumulative Lift — — Baseline Cumulative Lift —·—· Best Cumulative Lift

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

Data Role = TRAIN	Data Role = VALIDATE

Cumulative % Captured Response

Depth

Legend: —— Cumulative % Captured Response — — Baseline Cumulative % Captured Response —·—· Best Cumulative % Captured Response

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

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

Node=Stepwise Regression
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	0	0.0000	0.0203	0.000	0.020
0.05-0.10	132	8.9980	3.0142	8.998	3.035
0.00-0.05	1335	91.0020	96.9655	100.000	100.000

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.10-0.15	1	0.0908	0.0169	0.091	0.017
0.05-0.10	70	6.3579	2.9881	6.449	3.005
0.00-0.05	1030	93.5513	96.9950	100.000	100.000

SAS Enterprise Miner Report

Node=RegTree B2D6
Summary

Node id = Tree
Node label = RegTree B2D6
Meta path = Ids3 => Part => Tree
Notes =

Node=RegTree B2D6
Properties

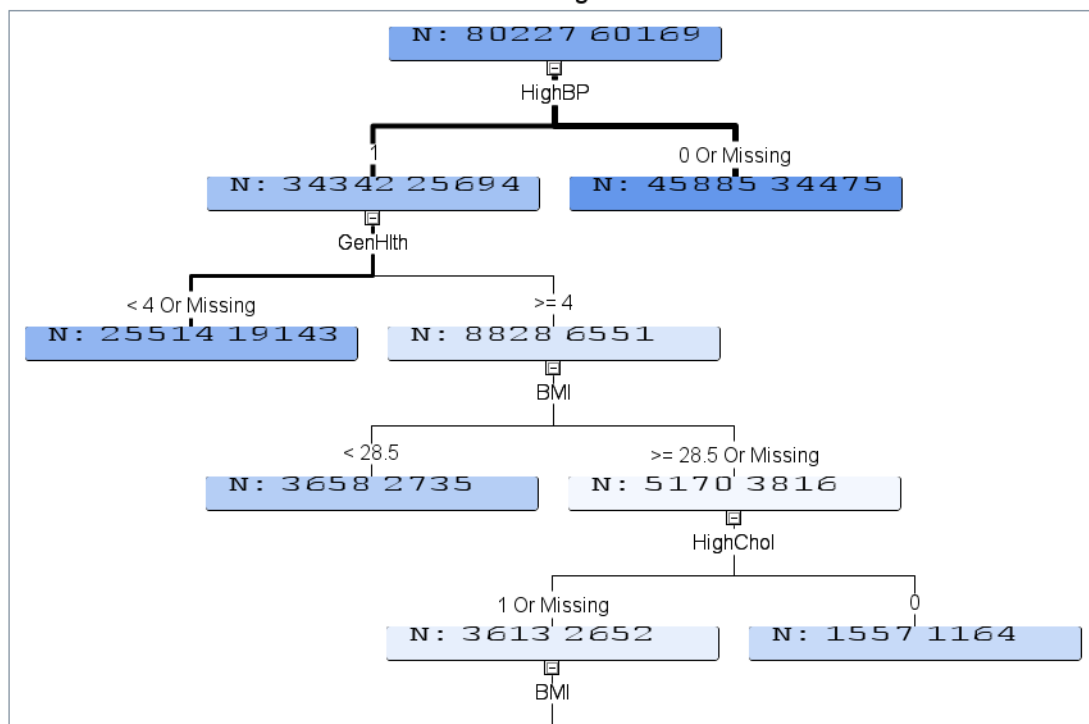| Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Y		Pred	N	
AVG	Y		KassApply	BEFORE		Predict	Y	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Y		RASE	N	
CV	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	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=RegTree B2D6
Variable Summary

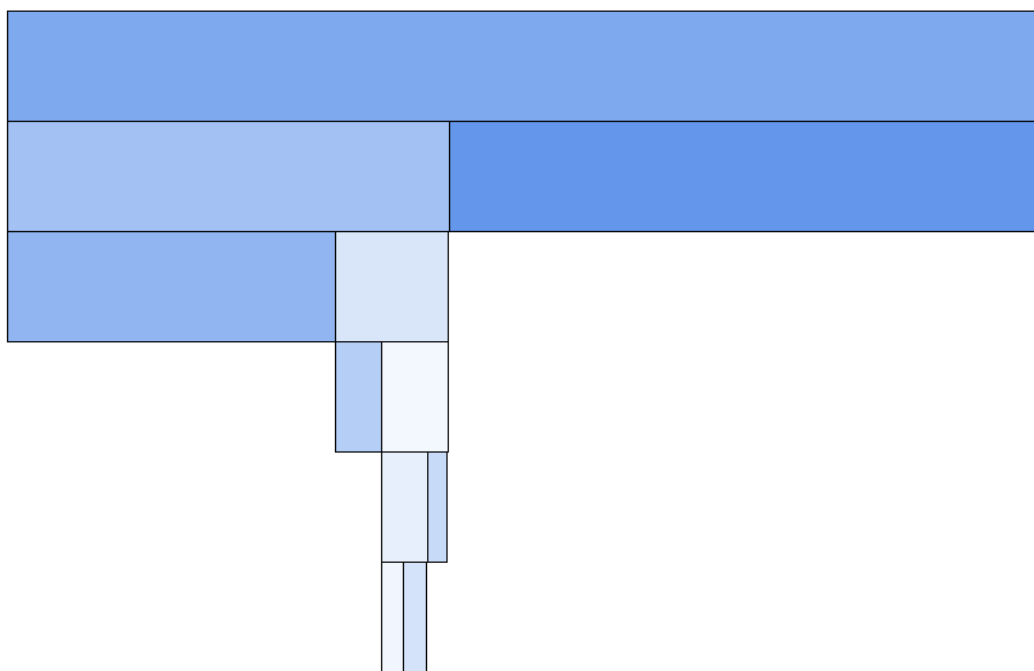| Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth
ID	INTERVAL	1	_dataobs_

Node=RegTree B2D6
Model Fit Statistics

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Sum of Frequencies	80227.00	60169.00	60176.00
Misclassification Rate	0.15	0.15	0.15
Maximum Absolute Error	0.99	0.99	0.99
Sum of Squared Errors	19108.87	14397.67	14381.29
Average Squared Error	0.08	0.08	0.08
Root Average Squared Error	0.28	0.28	0.28
Divisor for ASE	240681.00	180507.00	180528.00
Total Degrees of Freedom	160454.00	.	.

SAS Enterprise Miner Report
Node=RegTree B2D6
Tree Diagram

N: 80227 60169

HighBP

1 — N: 34342 25694
0 Or Missing — N: 45885 34475

GenHlth

< 4 Or Missing — N: 25514 19143
>= 4 — N: 8828 6551

BMI

< 28.5 — N: 3658 2735
>= 28.5 Or Missing — N: 5170 3816

HighChol

1 Or Missing — N: 3613 2652
0 — N: 1557 1164

BMI

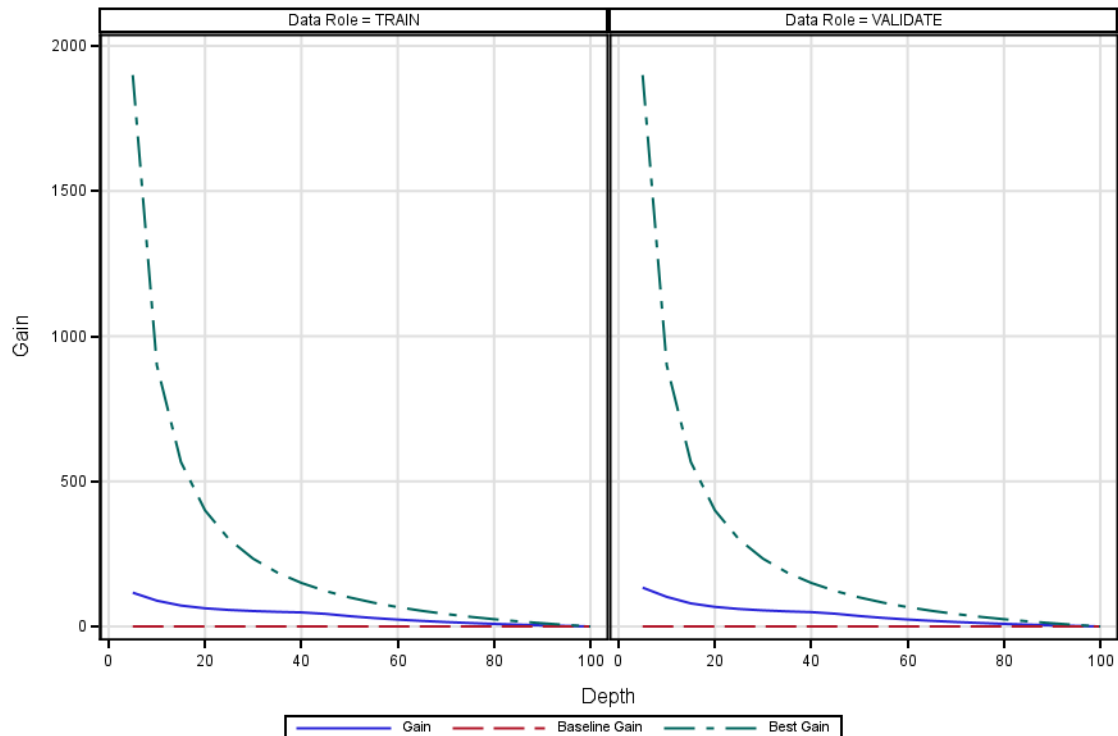SAS Enterprise Miner Report
Node=RegTree B2D6
Treemap

SAS Enterprise Miner Report
Node=RegTree B2D6
Model Iteration Plots
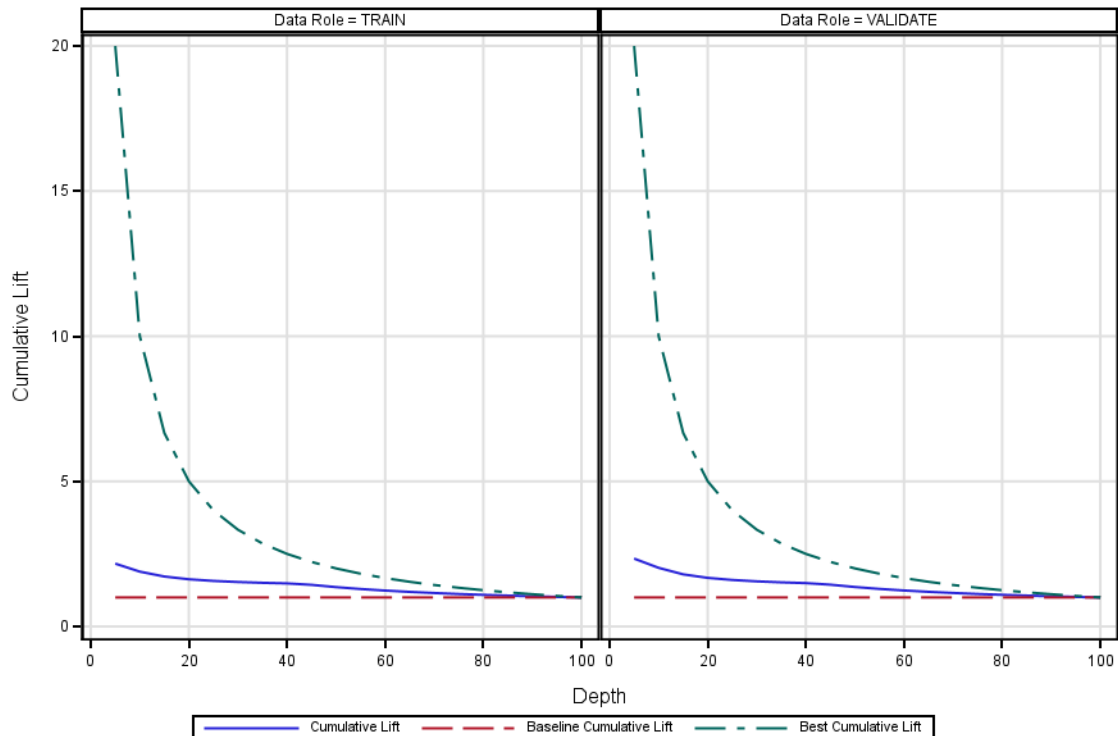
SAS Enterprise Miner Report
Node=RegTree B2D6
Model Assessment Scores where TARGET='Diabetes_Prediction'

Data Role = TRAIN / Data Role = VALIDATE

Gain vs Depth

Legend: Gain — Baseline Gain — Best Gain

SAS Enterprise Miner Report
Node=RegTree B2D6
Model Assessment Scores where TARGET='Diabetes_Prediction'

Data Role = TRAIN / Data Role = VALIDATE

Cumulative Lift vs Depth

Legend: Cumulative Lift — Baseline Cumulative Lift — Best Cumulative Lift

# SAS Enterprise Miner Report
Node=RegTree B2D6
Model Assessment Scores where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Legend: Cumulative % Captured Response — Baseline Cumulative % Captured Response — Best Cumulative % Captured Response

# SAS Enterprise Miner Report
Node=RegTree B2D6
Score Distributions where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Legend: Events — Non Events

SAS Enterprise Miner Report
Node=RegTree B2D6
Score Distributions where TARGET='Diabetes_Prediction'

Node=RegTree B2D6
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1467	100	100	100	100

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1101	100	100	100	100

SAS Enterprise Miner Report

Node=RegTree B2D4
Summary

Node id = Tree2
Node label = RegTree B2D4
Meta path = lds3 => Part => Tree2
Notes =

Node=RegTree B2D4
Properties

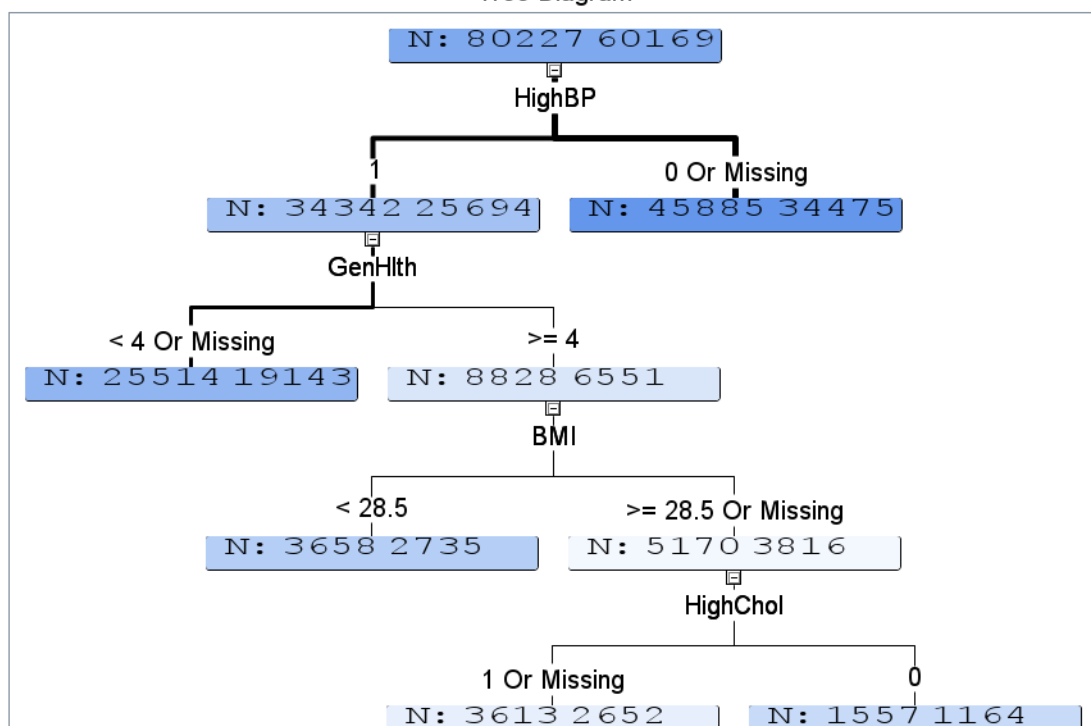| Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DecisionTree		Kass	Y		Pred	N	
AVG	Y		KassApply	BEFORE		Predict	Y	
AssessMeasure	PROFIT/LOSS		LeafSize	5		ProfitLoss	NONE	
AssessPercentage	0.25		Leafid	Y		RASE	N	
CV	N		Maxbranch	2		SampleMethod	RANDOM	
CVNIter	10		Maxdepth	4	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=RegTree B2D4
Variable Summary

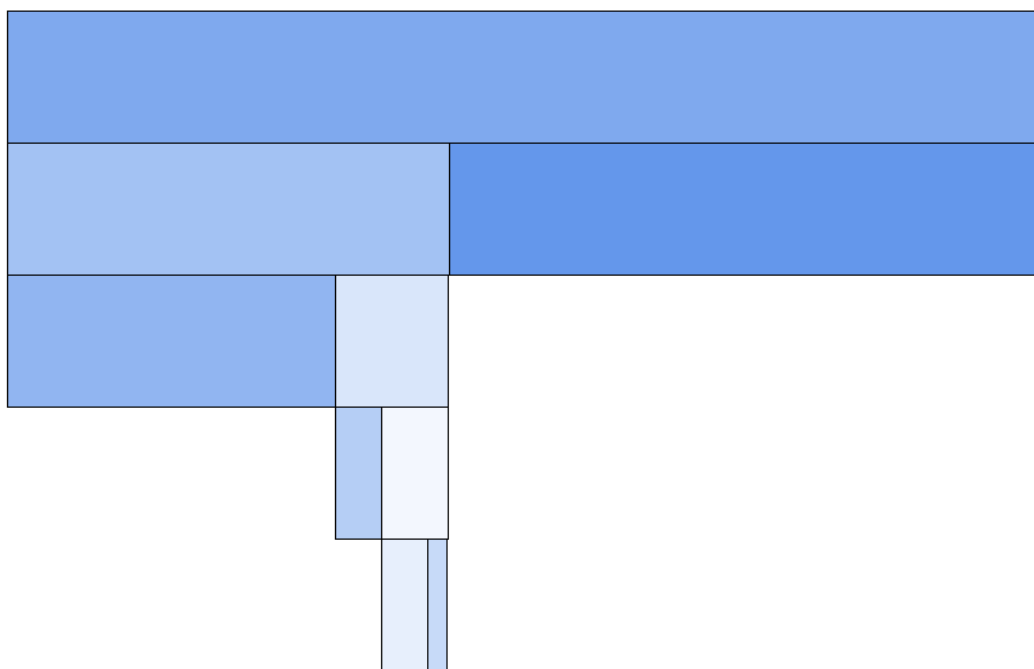| Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth
ID	INTERVAL	1	_dataobs_

Node=RegTree B2D4
Model Fit Statistics

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Sum of Frequencies	80227.00	60169.00	60176.00
Misclassification Rate	0.15	0.15	0.15
Maximum Absolute Error	0.99	0.99	0.99
Sum of Squared Errors	19134.35	14417.52	14394.32
Average Squared Error	0.08	0.08	0.08
Root Average Squared Error	0.28	0.28	0.28
Divisor for ASE	240681.00	180507.00	180528.00
Total Degrees of Freedom	160454.00	.	.

SAS Enterprise Miner Report
Node=RegTree B2D4
Tree Diagram

N: 80227 60169

HighBP

1 — N: 34342 25694

0 Or Missing — N: 45885 34475

GenHlth

< 4 Or Missing — N: 25514 19143

>= 4 — N: 8828 6551

BMI

< 28.5 — N: 3658 2735

>= 28.5 Or Missing — N: 5170 3816

HighChol

1 Or Missing — N: 3613 2652

0 — N: 1557 1164

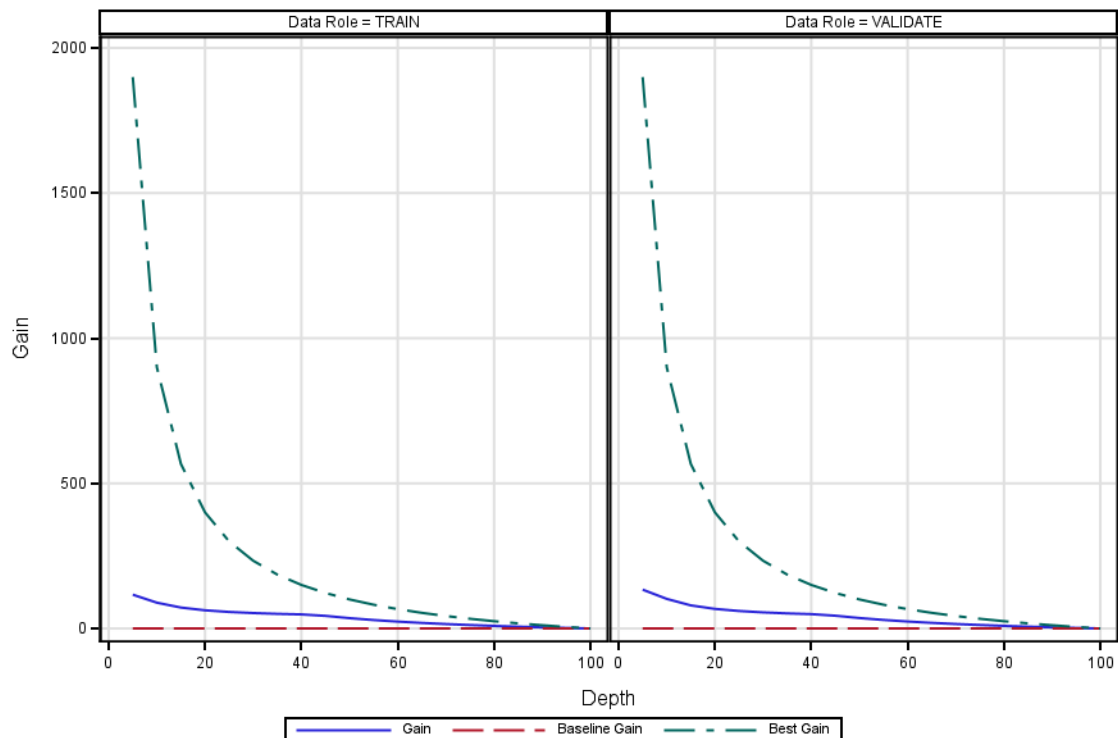SAS Enterprise Miner Report
Node=RegTree B2D4
Treemap

SAS Enterprise Miner Report
Node=RegTree B2D4
Model Iteration Plots

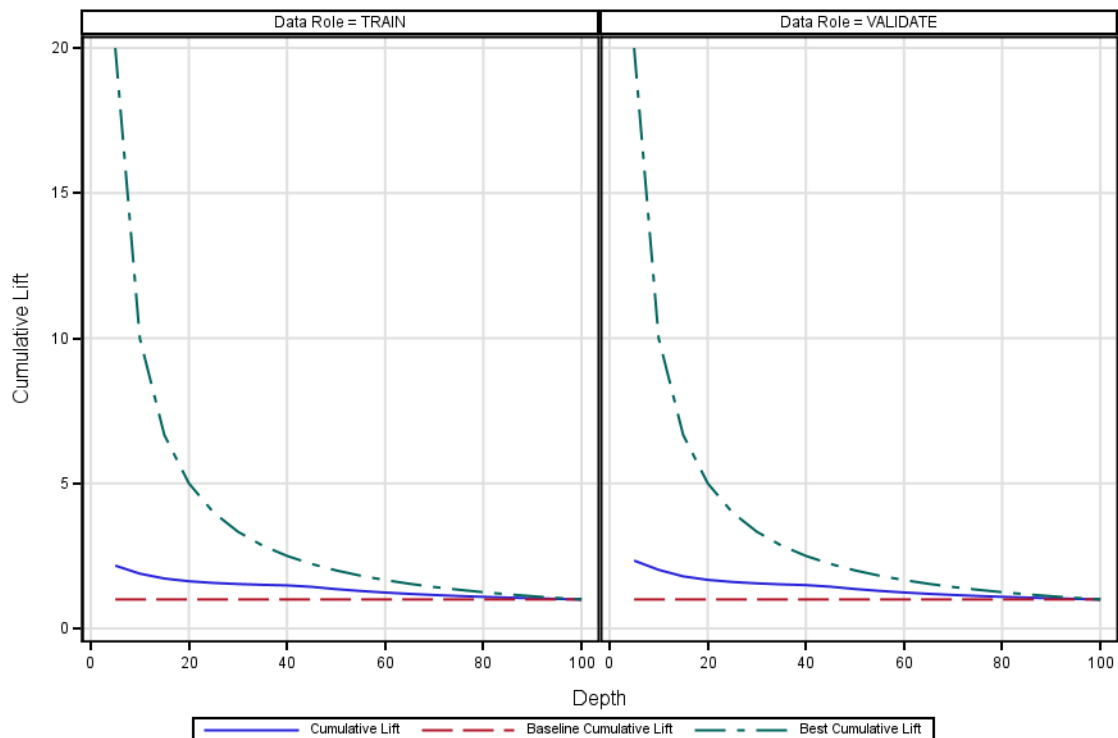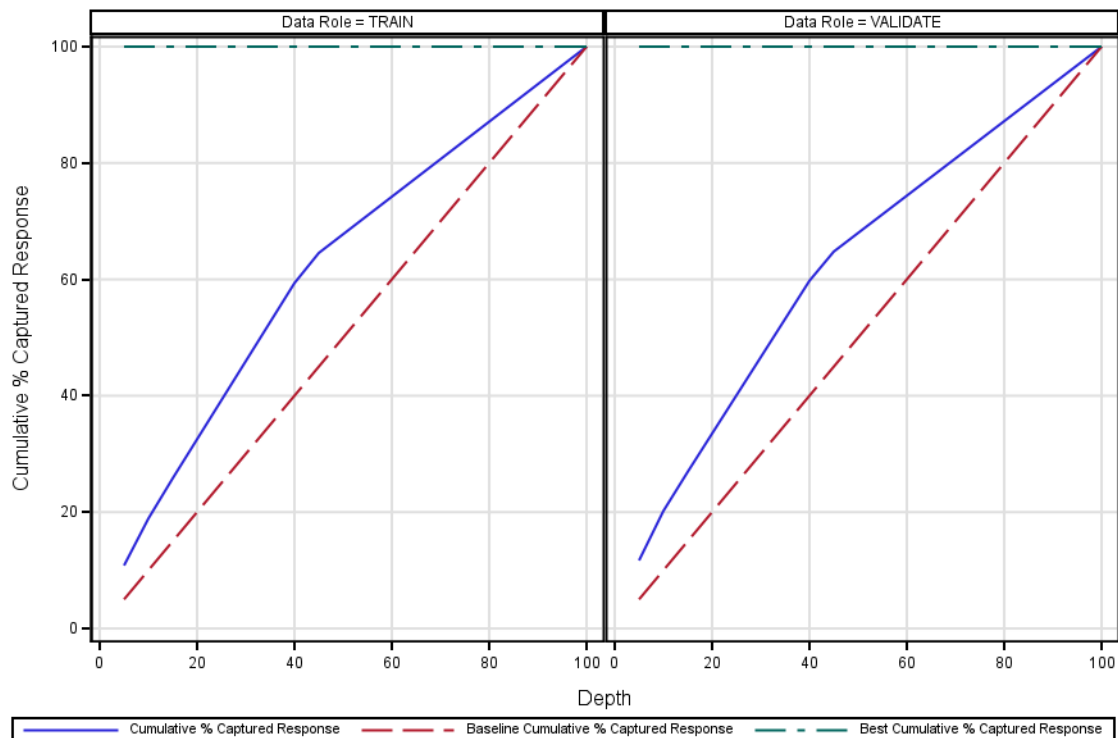SAS Enterprise Miner Report
Node=RegTree B2D4
Model Assessment Scores where TARGET='Diabetes_Prediction'
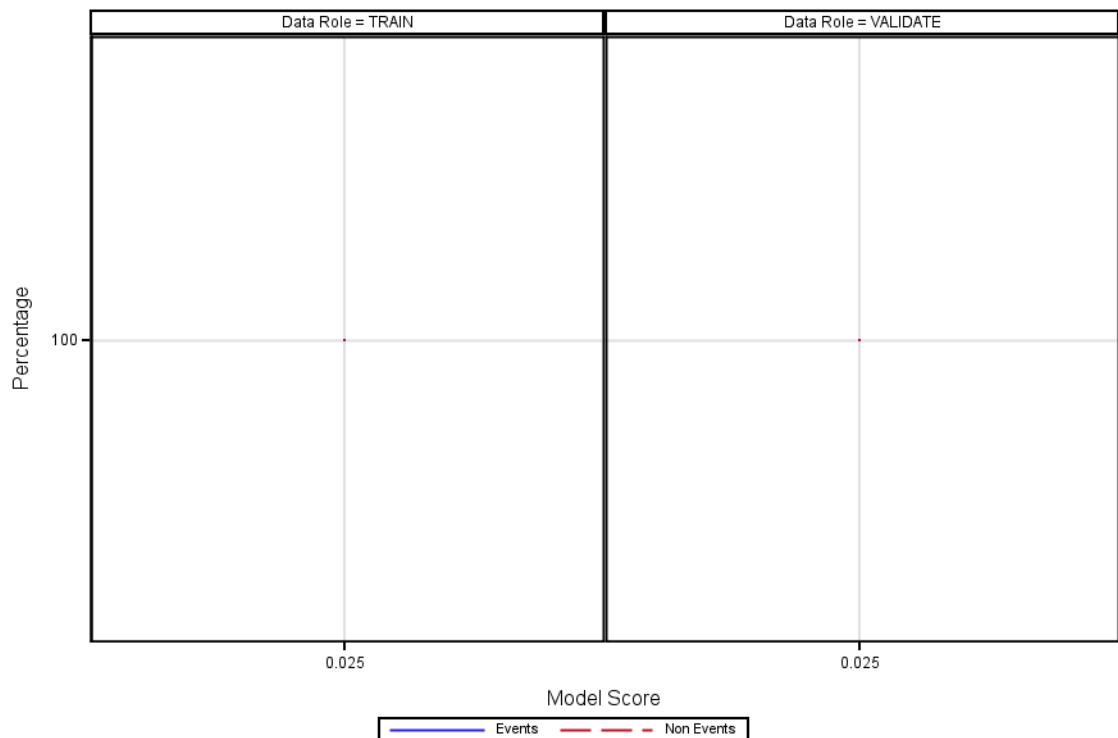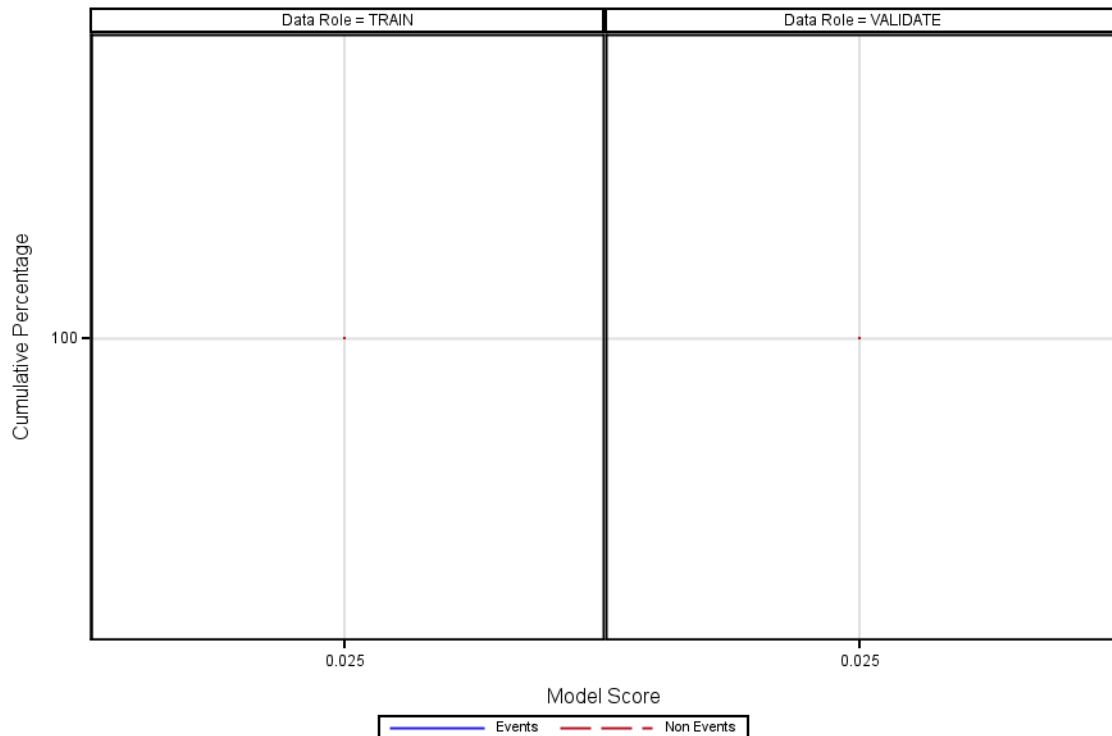

SAS Enterprise Miner Report
Node=RegTree B2D4
Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=RegTree B2D4
Model Assessment Scores where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Cumulative % Captured Response

Depth

Cumulative % Captured Response — Baseline Cumulative % Captured Response — Best Cumulative % Captured Response

SAS Enterprise Miner Report

Node=RegTree B2D4
Score Distributions where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Percentage

100

0.025   0.025

Model Score

Events — Non Events

SAS Enterprise Miner Report
Node=RegTree B2D4
Score Distributions where TARGET='Diabetes_Prediction'

Node=RegTree B2D4
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1467	100	100	100	100

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1101	100	100	100	100

SAS Enterprise Miner Report

Node=RegTree B2D2
Summary

Node id = Tree3
Node label = RegTree B2D2
Meta path = Ids3 => Part => Tree3
Notes =

Node=RegTree B2D2
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	2	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=RegTree B2D2
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth
ID	INTERVAL	1	_dataobs_

Node=RegTree B2D2
Model Fit Statistics

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Sum of Frequencies	80227.00	60169.00	60176.00
Misclassification Rate	0.15	0.15	0.15
Maximum Absolute Error	0.98	0.98	0.98
Sum of Squared Errors	21375.22	16030.83	16038.69
Average Squared Error	0.09	0.09	0.09
Root Average Squared Error	0.30	0.30	0.30
Divisor for ASE	240681.00	180507.00	180528.00
Total Degrees of Freedom	160454.00	.	.

SAS Enterprise Miner Report
Node=RegTree B2D2
Tree Diagram

N: 80227 60169

SAS Enterprise Miner Report
Node=RegTree B2D2
Treemap

SAS Enterprise Miner Report
Node=RegTree B2D2
Model Iteration Plots

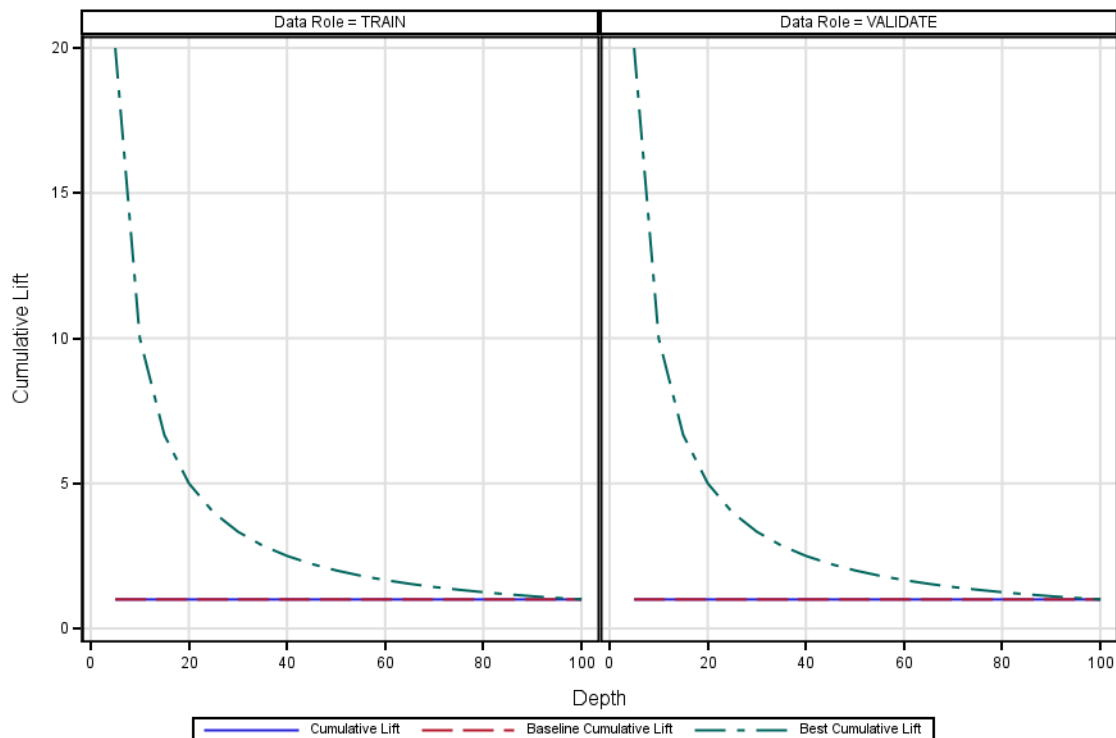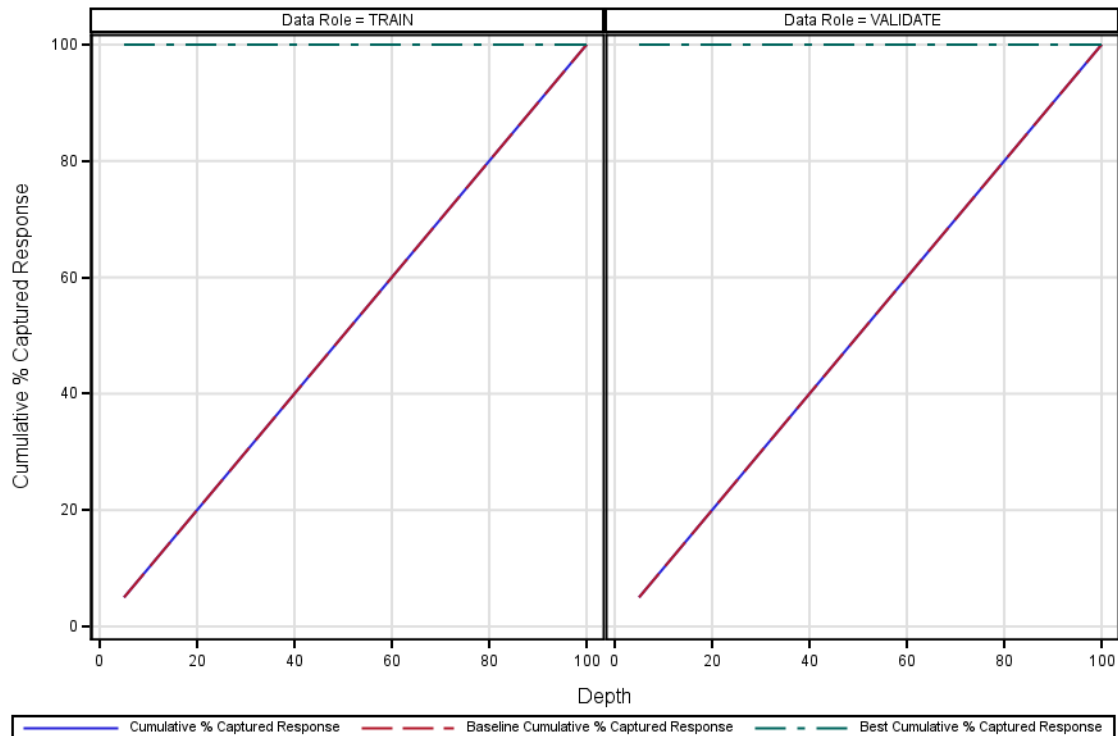SAS Enterprise Miner Report
Node=RegTree B2D2
Model Assessment Scores where TARGET='Diabetes_Prediction'
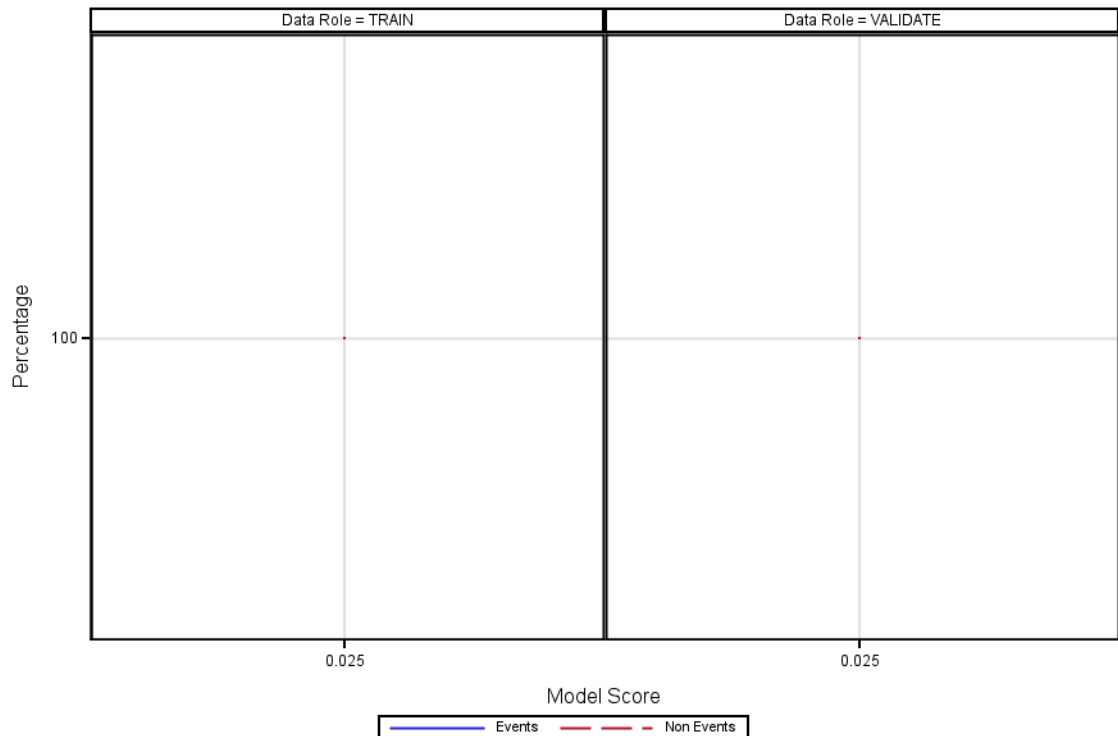

SAS Enterprise Miner Report
Node=RegTree B2D2
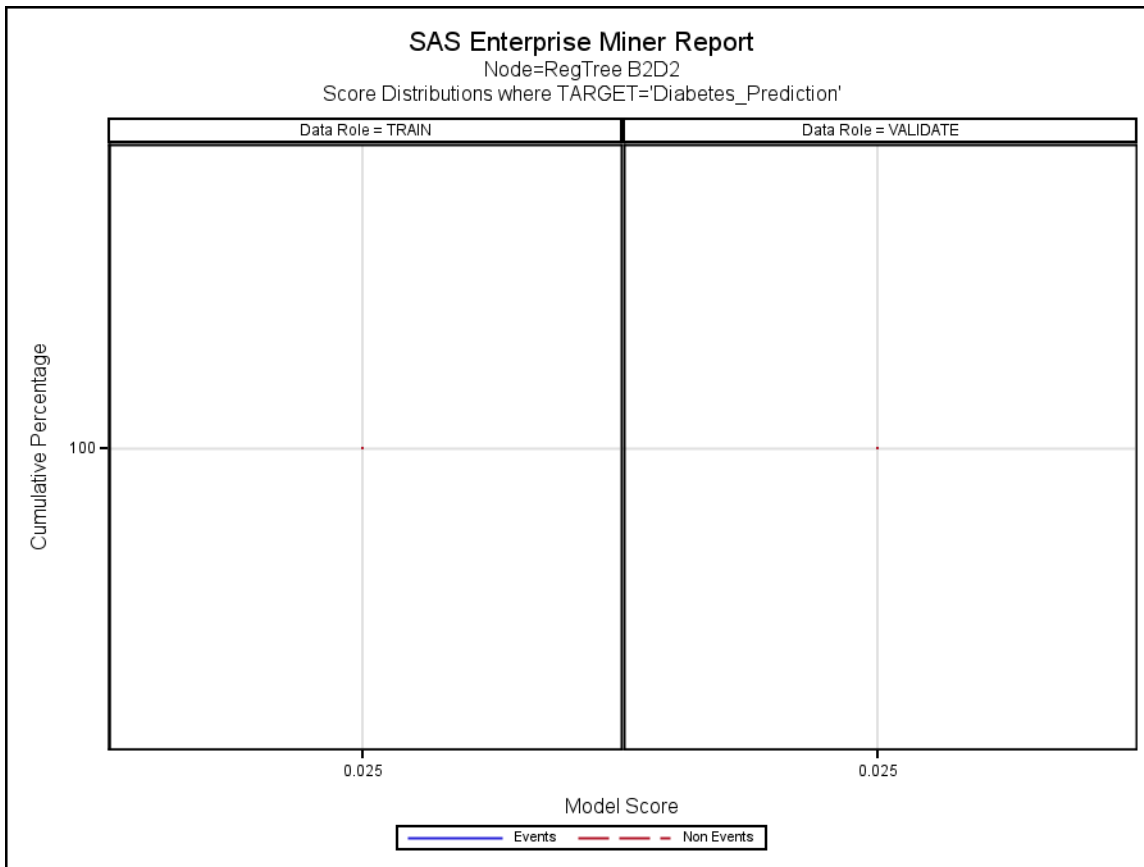Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=RegTree B2D2
Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=RegTree B2D2
Score Distributions where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=RegTree B2D2
Score Distributions where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Cumulative Percentage

100

0.025   0.025

Model Score

Events ——— Non Events – – –

Node=RegTree B2D2
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1467	100	100	100	100

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.00-0.05	1101	100	100	100	100

SAS Enterprise Miner Report

Node=RegTree B3D6
Summary

Node id = Tree4
Node label = RegTree B3D6
Meta path = lds3 => Part => Tree4
Notes =

Node=RegTree B3D6
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	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=RegTree B3D6
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction
INPUT	BINARY	14	AnyHealthcare CholCheck DiffWalk Fruits HeartDiseaseorAttack HighBP HighChol HvyAlcoholConsump NoDocbcCost PhysActivity Sex Smoker Stroke Veggies
INPUT	INTERVAL	2	Age BMI
INPUT	ORDINAL	5	Education GenHlth Income MentHlth PhysHlth
ID	INTERVAL	1	_dataobs_

Node=RegTree B3D6
Model Fit Statistics

Target=Diabetes_Prediction Target Label=' '

Label of Statistic	Train	Validation	Test
Sum of Frequencies	80227.00	60169.00	60176.00
Misclassification Rate	0.15	0.15	0.15
Maximum Absolute Error	0.99	0.99	0.99
Sum of Squared Errors	19150.93	14418.33	14374.08
Average Squared Error	0.08	0.08	0.08
Root Average Squared Error	0.28	0.28	0.28
Divisor for ASE	240681.00	180507.00	180528.00
Total Degrees of Freedom	160454.00	.	.

SAS Enterprise Miner Report
Node=RegTree B3D6
Tree Diagram
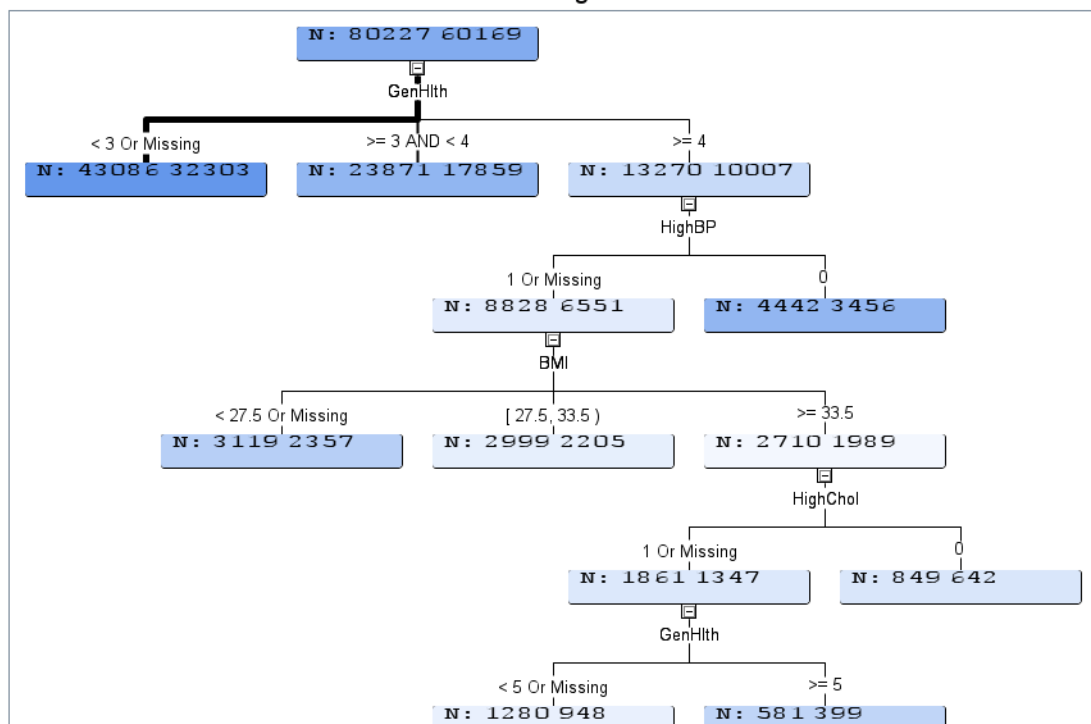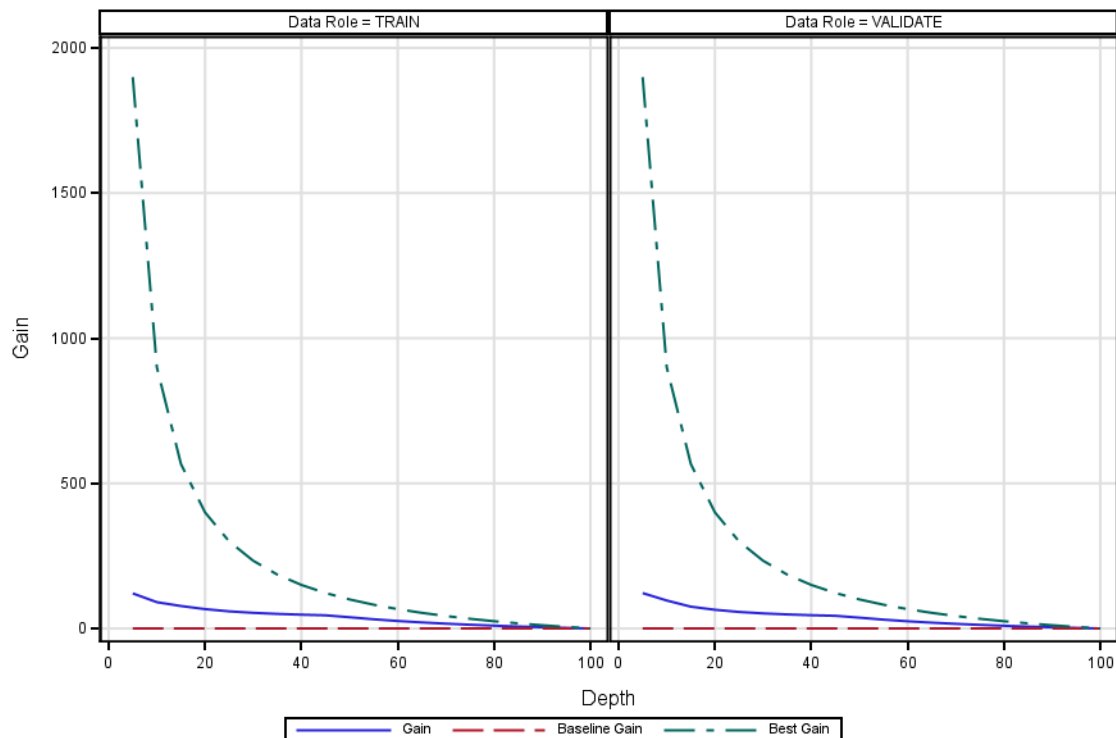
SAS Enterprise Miner Report
Node=RegTree B3D6
Treemap

SAS Enterprise Miner Report
Node=RegTree B3D6
Model Iteration Plots
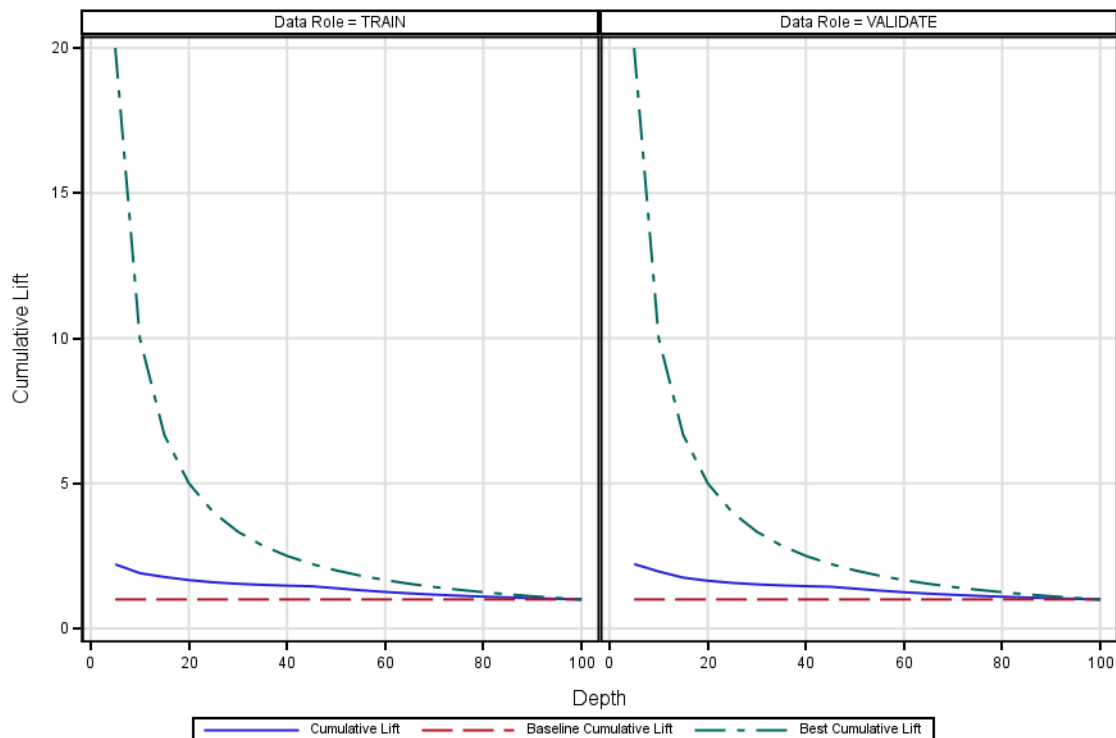
SAS Enterprise Miner Report
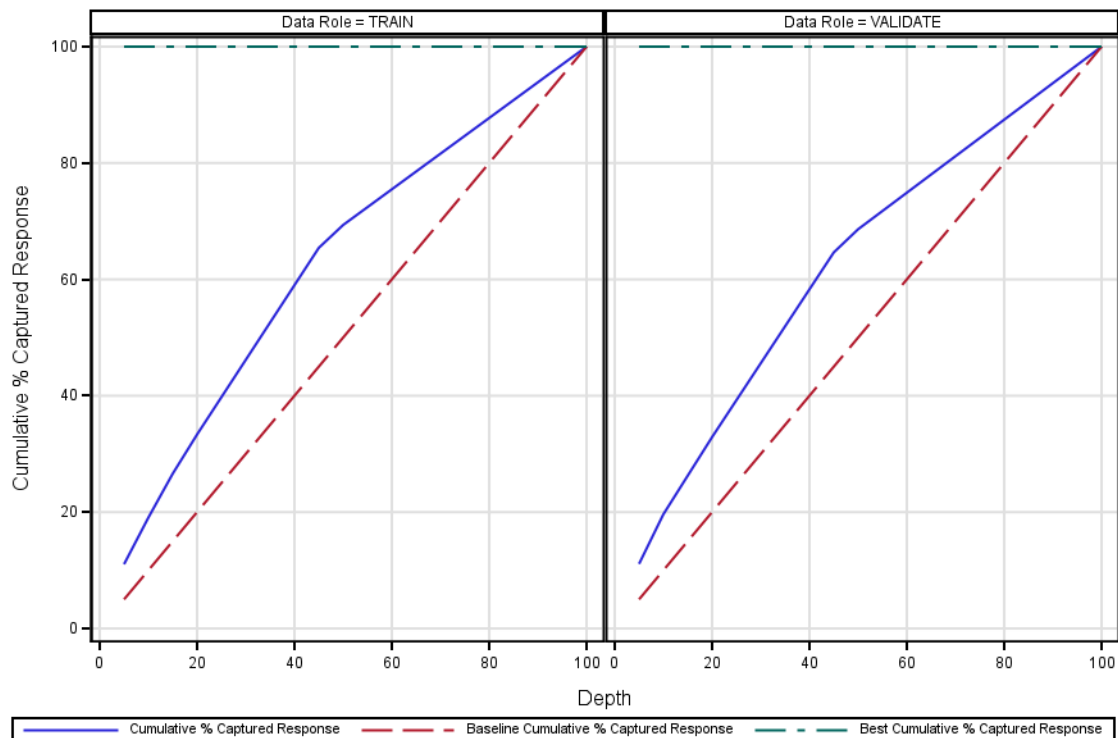Node=RegTree B3D6
Model Assessment Scores where TARGET='Diabetes_Prediction'

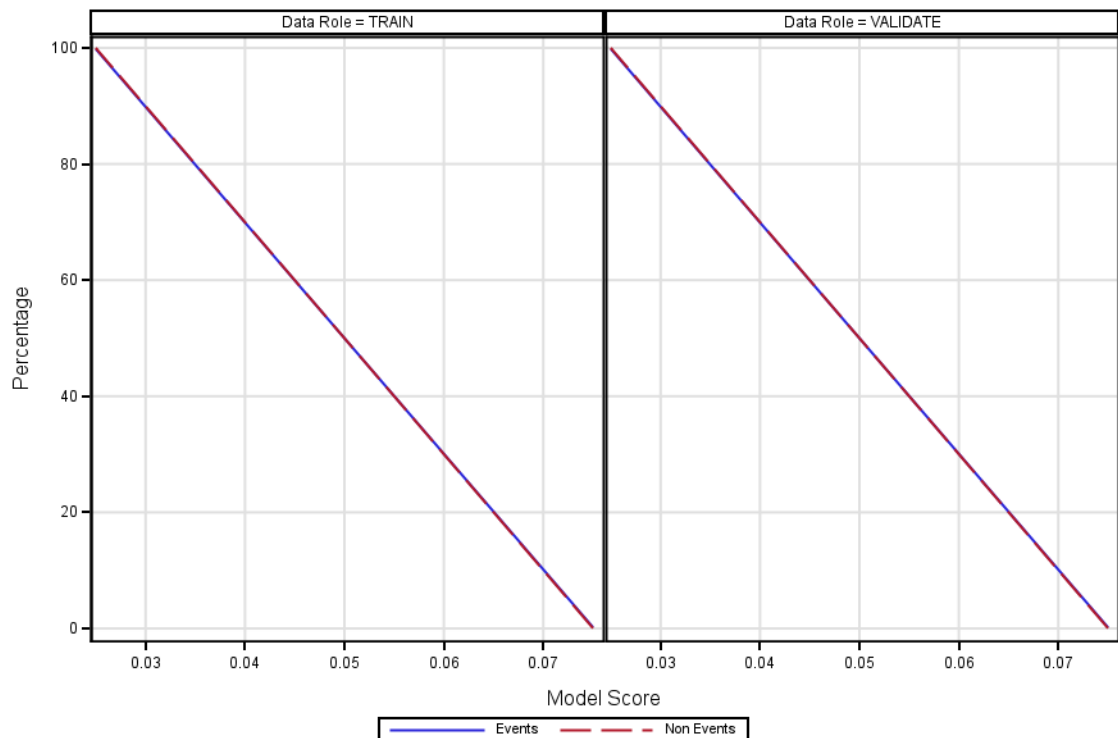SAS Enterprise Miner Report
Node=RegTree B3D6
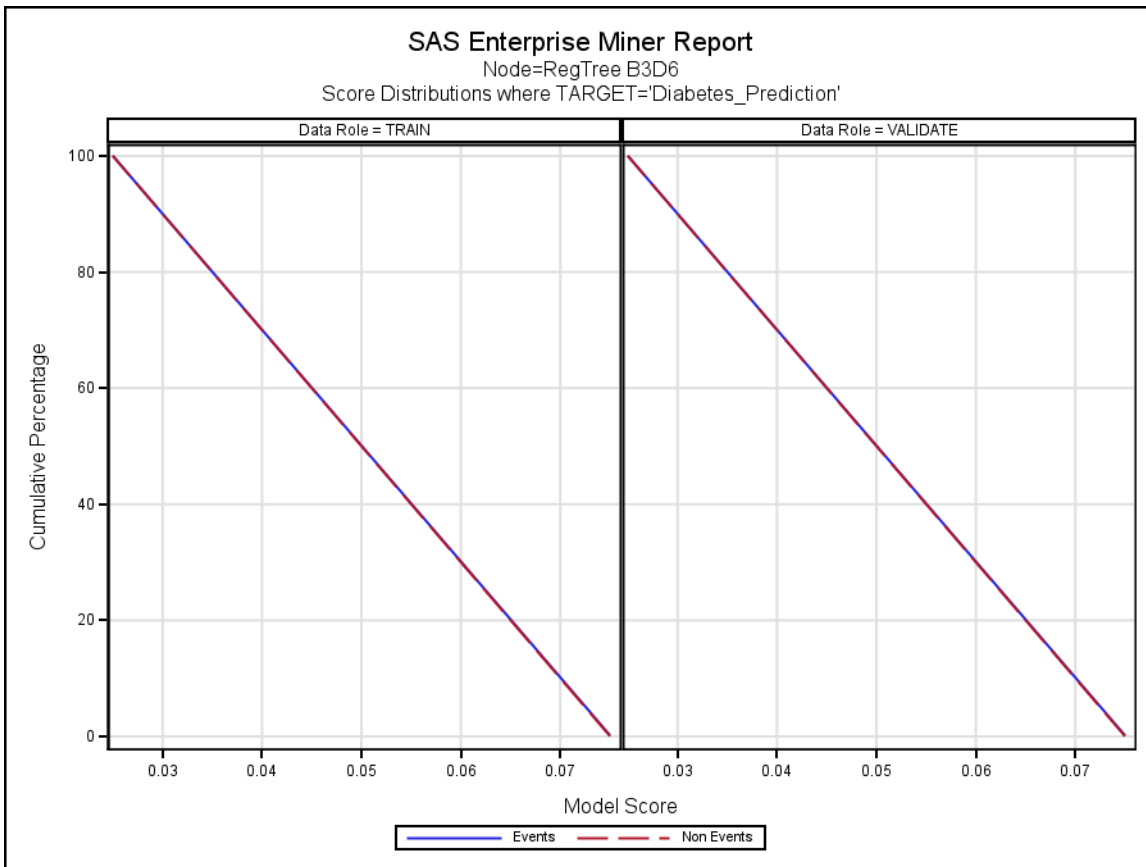Model Assessment Scores where TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=RegTree B3D6
Model Assessment Scores where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Cumulative % Captured Response — Baseline Cumulative % Captured Response — · — Best Cumulative % Captured Response

SAS Enterprise Miner Report

Node=RegTree B3D6
Score Distributions where TARGET='Diabetes_Prediction'

Data Role = TRAIN	Data Role = VALIDATE

Events — — — Non Events

SAS Enterprise Miner Report
Node=RegTree B3D6
Score Distributions where TARGET='Diabetes_Prediction'

Node=RegTree B3D6
Score Distributions

Target Variable=Diabetes_Prediction Data Role=TRAIN

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.05-0.10	3	0.2045	0.0457	0.204	0.046
0.00-0.05	1464	99.7955	99.9543	100.000	100.000

Target Variable=Diabetes_Prediction Data Role=VALIDATE

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.05-0.10	2	0.1817	0.0389	0.182	0.039
0.00-0.05	1099	99.8183	99.9611	100.000	100.000

SAS Enterprise Miner Report

Node=MLR ModelComparison
Summary

Node id = MdlComp2
Node label = MLR ModelComparison
Meta path = lds3 => Part => Reg2 => MdlComp2
Notes =

Node=MLR ModelComparison
Properties

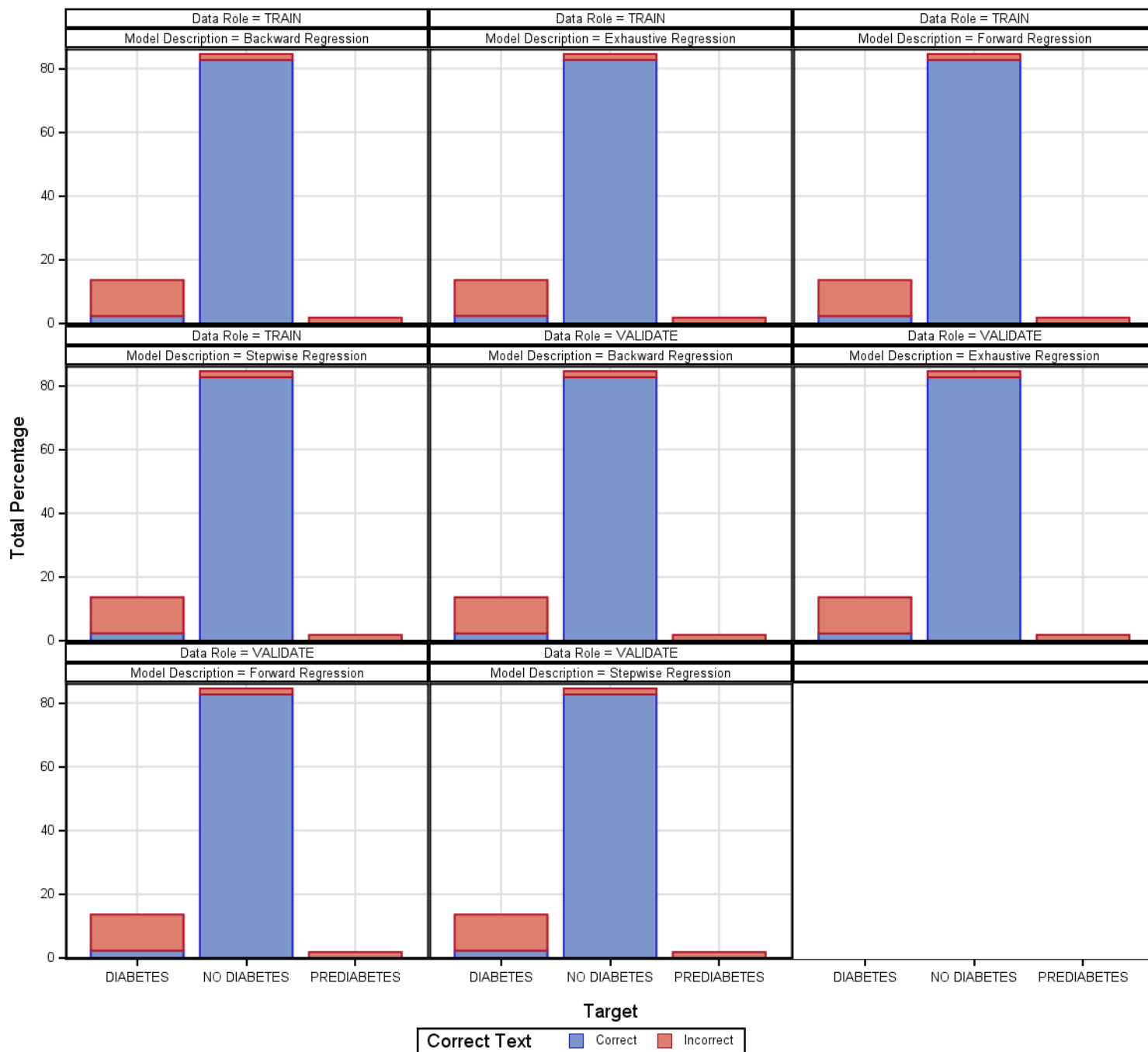| Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NumberOfReportedLevels	1E-6		SelectionData	DEFAULT	
AssessAllTargetLevels	N		NumberofBins	20		SelectionDepth	10	
DecileBin	20		ProfitEpsilon	1E-6		SelectionTable	TRAIN	TABLE
HPCriteria	DEFAULT		RecomputeAssess	N		StatisticUsed	_VMISC_	
LiftEpsilon	1E-6		RocChart	Y		TargetLabel		
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	Diabetes_Prediction	
ModelDescription	Forward Regression		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Reg2		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=MLR ModelComparison
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction

Node=MLR ModelComparison
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	Reg2	Reg2	Forward Regression	Diabetes_Prediction		0.15056	0.073718	0.15006	0.324
	Reg3	Reg3	Backward Regression	Diabetes_Prediction		0.15056	0.073718	0.15006	0.324
	Reg4	Reg4	Stepwise Regression	Diabetes_Prediction		0.15056	0.073718	0.15006	0.324
	Reg	Reg	Exhaustive Regression	Diabetes_Prediction		0.15069	0.073600	0.14940	0.330

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	Reg2	Reg2	Forward Regression	Diabetes_Prediction		0.15056	0.073672	0.15056	0.307
	Reg3	Reg3	Backward Regression	Diabetes_Prediction		0.15056	0.073672	0.15056	0.307
	Reg4	Reg4	Stepwise Regression	Diabetes_Prediction		0.15056	0.073672	0.15056	0.307
	Reg	Reg	Exhaustive Regression	Diabetes_Prediction		0.15069	0.073807	0.15069	0.304

SAS Enterprise Miner Report
Node=MLR ModelComparison
Classification Chart
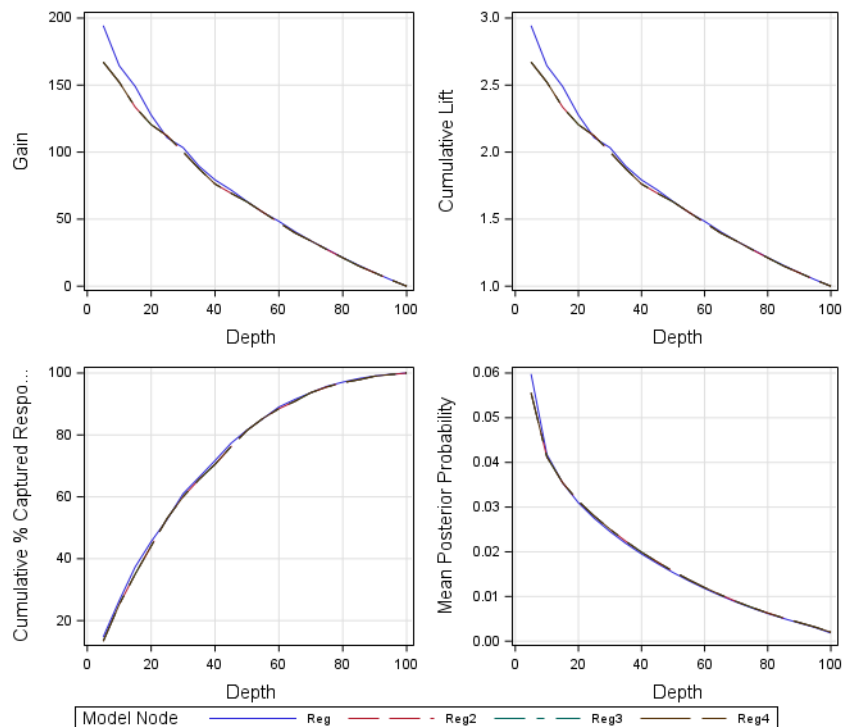## TARGET='Diabetes_Prediction' and _TYPE_='PREDICTION'

SAS Enterprise Miner Report
Node=MLR ModelComparison
Multiple Model Assessment Scores where DataRole=TEST
TARGET='Diabetes_Prediction'
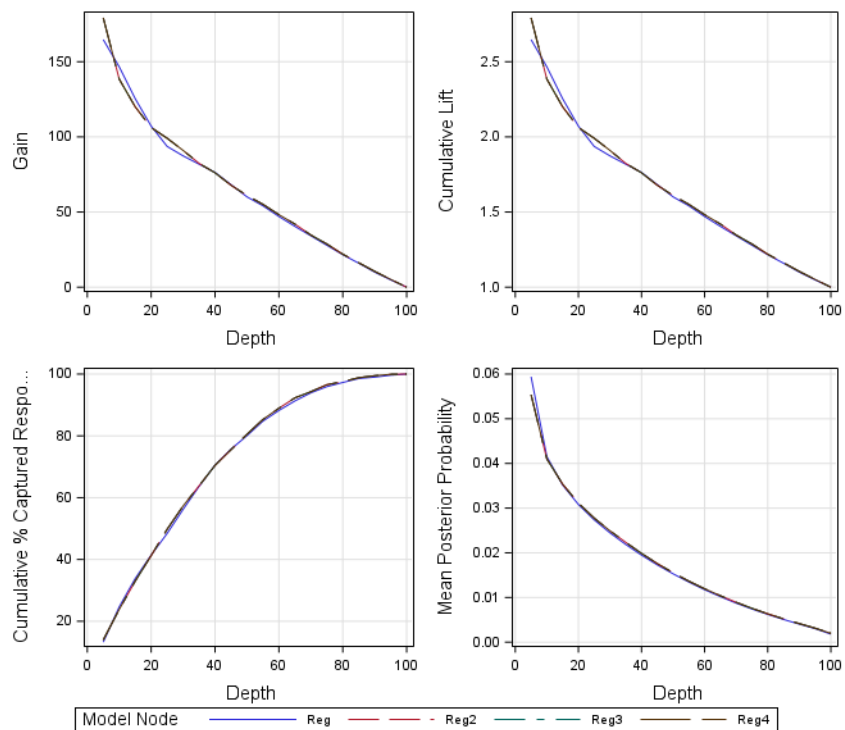
SAS Enterprise Miner Report
Node=MLR ModelComparison
Multiple Model Assessment Scores where DataRole=TRAIN
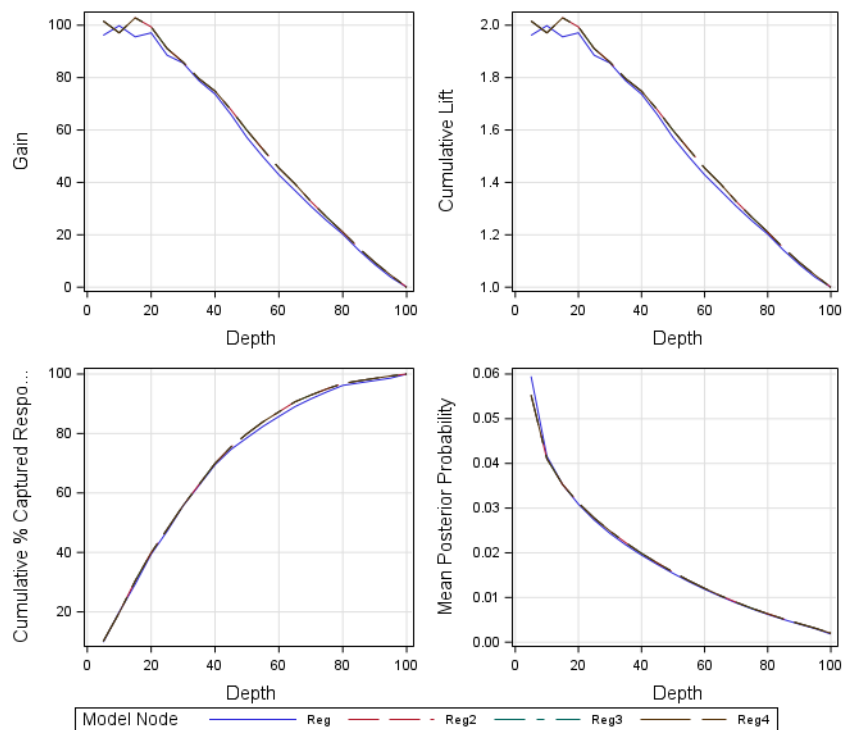TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=MLR ModelComparison
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

**Node=RegTree Model Comparison
Summary**

Node id = MdlComp
Node label = RegTree Model Comparison
Meta path = lds3 => Part => Tree4 => MdlComp
Notes =

**Node=RegTree Model Comparison
Properties**

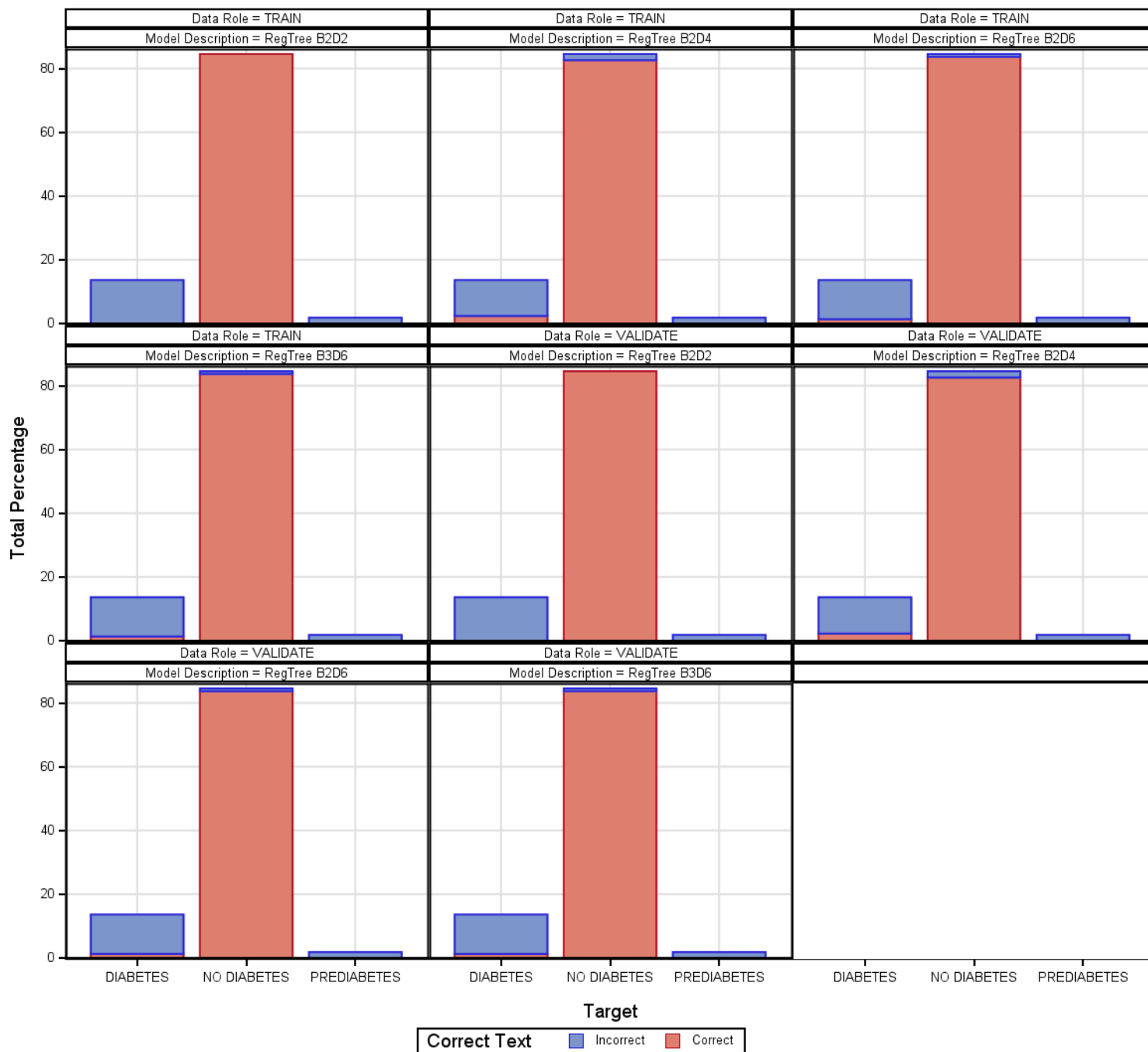| Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NumberOfReportedLevels	1E-6		SelectionData	DEFAULT	
AssessAllTargetLevels	N		NumberofBins	20		SelectionDepth	10	
DecileBin	20		ProfitEpsilon	1E-6		SelectionTable	TRAIN	TABLE
HPCriteria	DEFAULT		RecomputeAssess	N		StatisticUsed	_VMISC_	
LiftEpsilon	1E-6		RocChart	Y		TargetLabel		
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	Diabetes_Prediction	
ModelDescription	RegTree B3D6		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree4		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

**Node=RegTree Model Comparison
Variable Summary**

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction

**Node=RegTree Model Comparison
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	Tree4	Tree4	RegTree B3D6	Diabetes_Prediction		0.15053	0.079570	0.14959	0.212
	Tree	Tree	RegTree B2D6	Diabetes_Prediction		0.15061	0.079395	0.14979	0.207
	Tree2	Tree2	RegTree B2D4	Diabetes_Prediction		0.15201	0.079501	0.15041	0.207
	Tree3	Tree3	RegTree B2D2	Diabetes_Prediction		0.15463	0.088811	0.15464	0.000

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	Tree4	Tree4	RegTree B3D6	Diabetes_Prediction		0.15053	0.079877	0.15053	0.204
	Tree	Tree	RegTree B2D6	Diabetes_Prediction		0.15061	0.079762	0.15061	0.210
	Tree2	Tree2	RegTree B2D4	Diabetes_Prediction		0.15201	0.079872	0.15201	0.210
	Tree3	Tree3	RegTree B2D2	Diabetes_Prediction		0.15463	0.088810	0.15463	0.000

SAS Enterprise Miner Report
Node=RegTree Model Comparison
Classification Chart
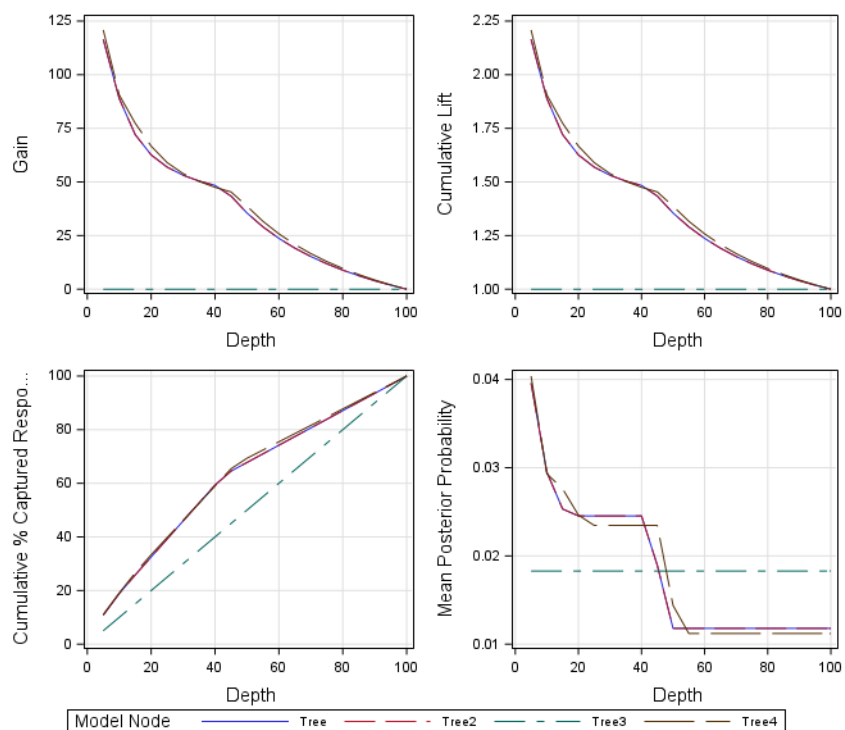## TARGET='Diabetes_Prediction' and _TYPE_='PREDICTION'

SAS Enterprise Miner Report
Node=RegTree Model Comparison
Multiple Model Assessment Scores where DataRole=TEST
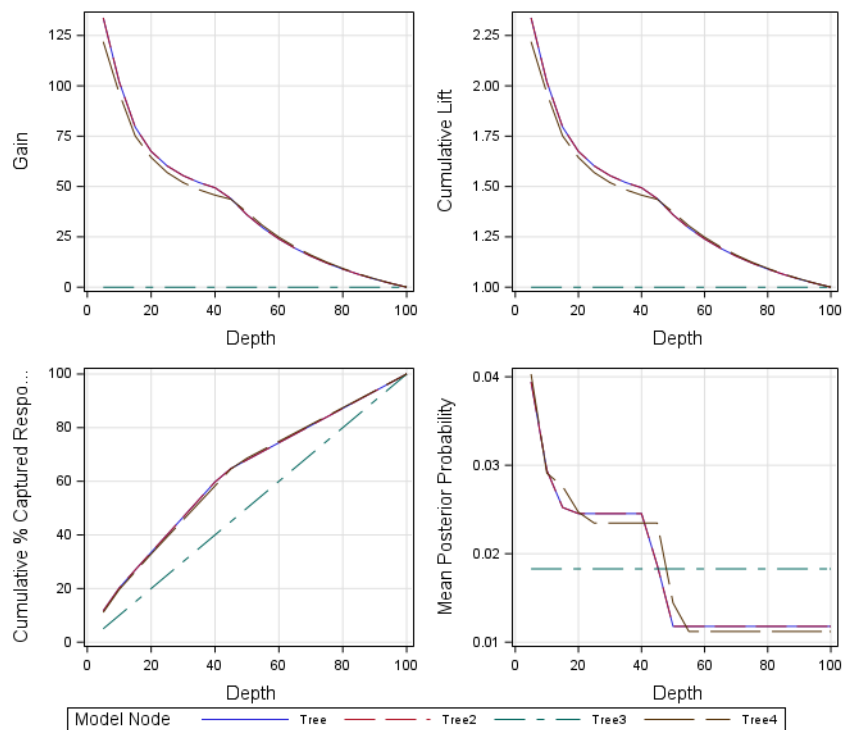TARGET='Diabetes_Prediction'
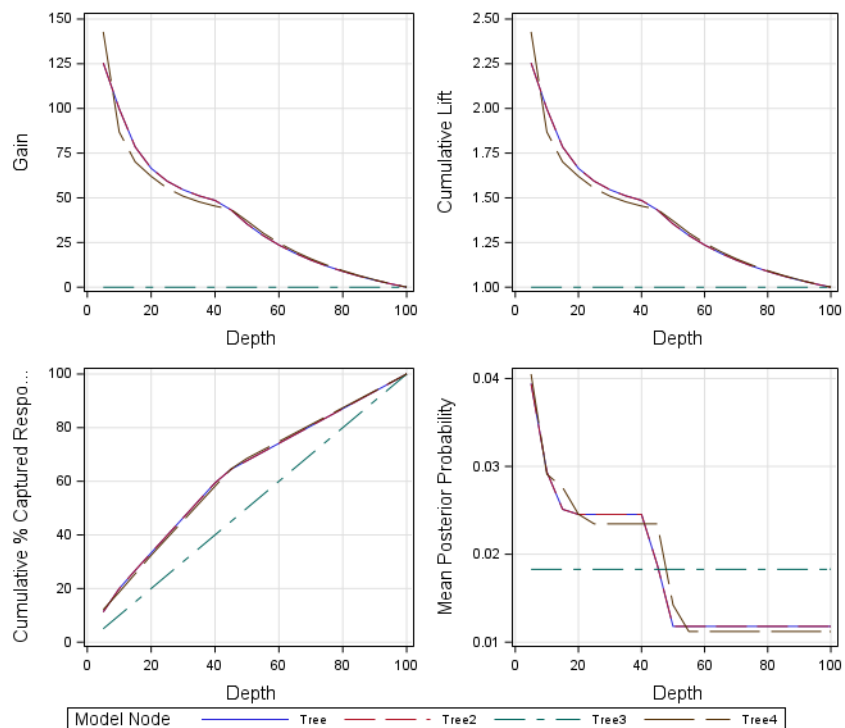
SAS Enterprise Miner Report
Node=RegTree Model Comparison
Multiple Model Assessment Scores where DataRole=TRAIN
TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=RegTree Model Comparison
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=SCOREDIABETES_TRAIN
Summary

Node id = Ids4
Node label = SCOREDIABETES_TRAIN
Meta path = Ids4
Notes =

Node=SCOREDIABETES_TRAIN
Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	DataSource		DsCreatedBy	shre2		NBytes	9307136	.
ApplyIntervalLevelLowerLimit	Y		DsId	scorediabetestrain		NCols	22	.
ApplyMaxClassLevels	Y		DsModifiedBy	shre2		NObs	50144	.
ApplyMaxPercentMissing	Y		DsModifyDate	2025130005.4		NewTable		
CMeta	WORK.M0_AXJ7R		DsSampleName			NewVariableRole	REJECT	
ComputeStatistics	N		DsSampleSize			OutputType	VIEW	
DBPassThrough	Y		DsSampleSizeType			Role	RAW	TRAIN
Data	ZETADATA.SCOREDIABETES_TRAIN		DsScope	LOCAL		Sample	D	
DataSelection	DATASOURCE		IdentifyEmptyColumns	Y		SampleSizeObs	10000	
DataSource	scorediabetestrain		IntervalLowerLimit	20		SampleSizePercent	20	
DataSourceRole	RAW		Library	ZETADATA		SampleSizeType	PERCENT	
Description			MaxClassLevels	20		Scope	LOCAL	
DropMapVariables	Y		MaxPercentMissing	50		Segment		
DsCreateDate	2025130005.1		MetaAdvisor	BASIC		Table	SCOREDIABETES_TRAIN	

Node=SCOREDIABETES_TRAIN
Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	SCOREDIABETES_TRAIN	Date Created	04Mar2024:00:05:17	Data Size	9307136
Data Type	DATA	Date Modified	04Mar2024:00:05:17	Role	RAW
Data Label		Number Rows	50144	Segment	
Engine	BASE	Number Columns	22	Data Library	ZETADATA

Node=SCOREDIABETES_TRAIN
Variables List

Name	Label	Role	Level	Type	Length	Format	Creator
Age	Age	INPUT	INTERVAL	N	8	BEST.	
AnyHealthcare	AnyHealthcare	INPUT	BINARY	N	8	BEST.	
BMI	BMI	INPUT	INTERVAL	N	8	BEST.	
CholCheck	CholCheck	INPUT	BINARY	N	8	BEST.	
Diabetes_Prediction		TARGET	NOMINAL	C	11		
DiffWalk	DiffWalk	INPUT	BINARY	N	8	BEST.	
Education	Education	INPUT	ORDINAL	N	8	BEST.	
Fruits	Fruits	INPUT	BINARY	N	8	BEST.	
GenHlth	GenHlth	INPUT	ORDINAL	N	8	BEST.	
HeartDiseaseorAttack	HeartDiseaseorAttack	INPUT	BINARY	N	8	BEST.	
HighBP	HighBP	INPUT	BINARY	N	8	BEST.	

Name	Label	Role	Level	Type	Length	Format	Creator
HighChol	HighChol	INPUT	BINARY	N	8	BEST.	
HvyAlcoholConsump	HvyAlcoholConsump	INPUT	BINARY	N	8	BEST.	
Income	Income	INPUT	ORDINAL	N	8	BEST.	
MentHlth	MentHlth	INPUT	ORDINAL	N	8	BEST.	
NoDocbcCost	NoDocbcCost	INPUT	BINARY	N	8	BEST.	
PhysActivity	PhysActivity	INPUT	BINARY	N	8	BEST.	
PhysHlth	PhysHlth	INPUT	ORDINAL	N	8	BEST.	
Sex	Sex	INPUT	BINARY	N	8	BEST.	
Smoker	Smoker	INPUT	BINARY	N	8	BEST.	
Stroke	Stroke	INPUT	BINARY	N	8	BEST.	
Veggies	Veggies	INPUT	BINARY	N	8	BEST.	

SAS Enterprise Miner Report

Node=Predict Model Comparison
Summary

Node id = MdlComp3
Node label = Predict Model Comparison
Meta path = Ids3 => Part => Tree4 => MdlComp => MdlComp3
Notes =

Node=Predict Model Comparison
Properties

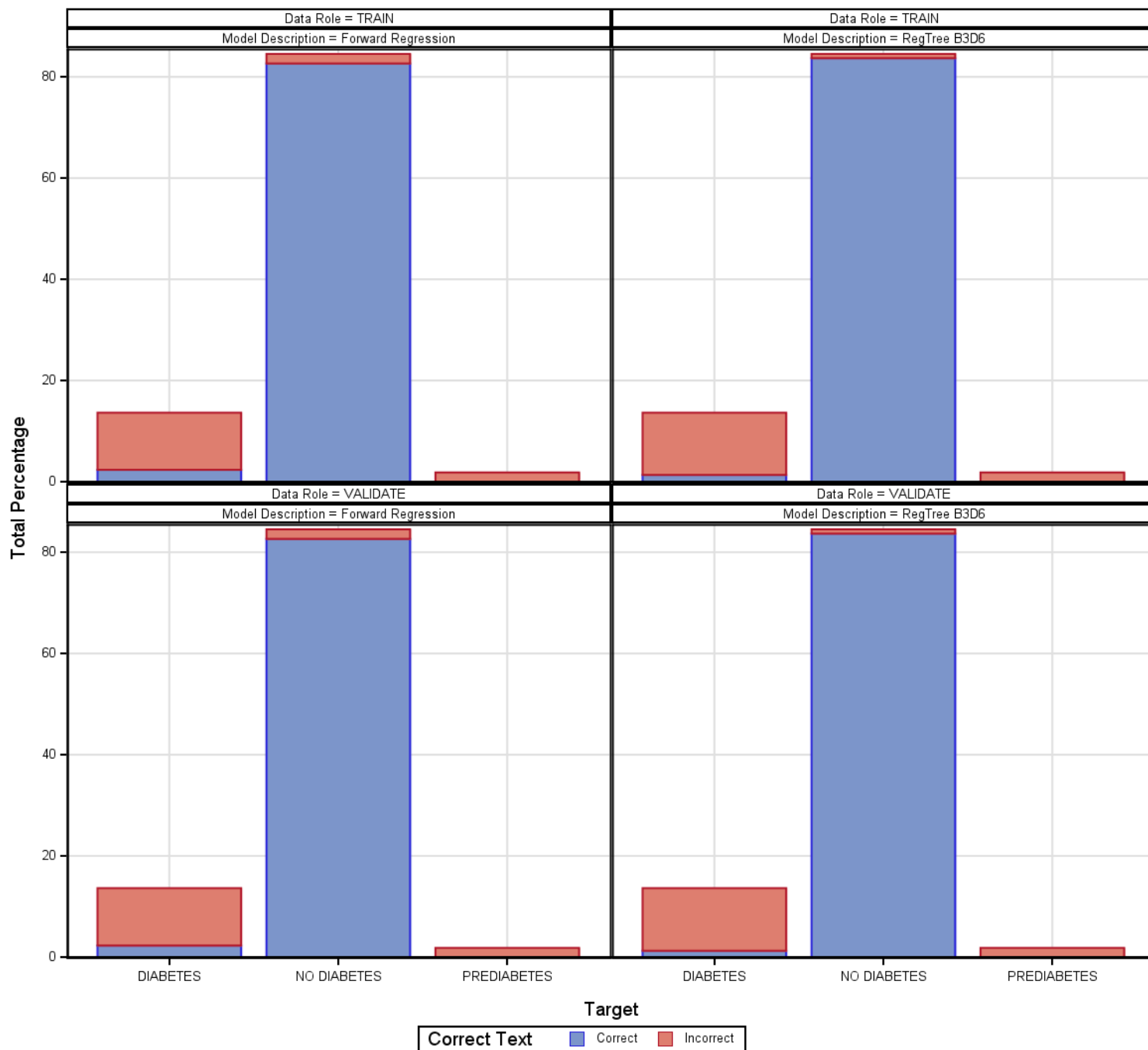| Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NumberOfReportedLevels	1E-6		SelectionData	DEFAULT	
AssessAllTargetLevels	N		NumberofBins	20		SelectionDepth	10	
DecileBin	20		ProfitEpsilon	1E-6		SelectionTable	TRAIN	TABLE
HPCriteria	DEFAULT		RecomputeAssess	N		StatisticUsed	_VMISC_	
LiftEpsilon	1E-6		RocChart	Y		TargetLabel		
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	Diabetes_Prediction	
ModelDescription	RegTree B3D6		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
ModelId	Tree4		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Y		SelectionCriteria	DEFAULT				

Node=Predict Model Comparison
Variable Summary

Role	Level	Frequency Count	Name
TARGET	NOMINAL	1	Diabetes_Prediction

Node=Predict Model Comparison
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	Tree4	RegTree B3D6	Diabetes_Prediction		0.15053	0.079570	0.14959	0.212
	MdlComp2	Reg2	Forward Regression	Diabetes_Prediction		0.15056	0.073718	0.15006	0.324

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	Tree4	RegTree B3D6	Diabetes_Prediction		0.15053	0.079877	0.15053	0.204
	MdlComp2	Reg2	Forward Regression	Diabetes_Prediction		0.15056	0.073672	0.15056	0.307

SAS Enterprise Miner Report
Node=Predict Model Comparison
Classification Chart
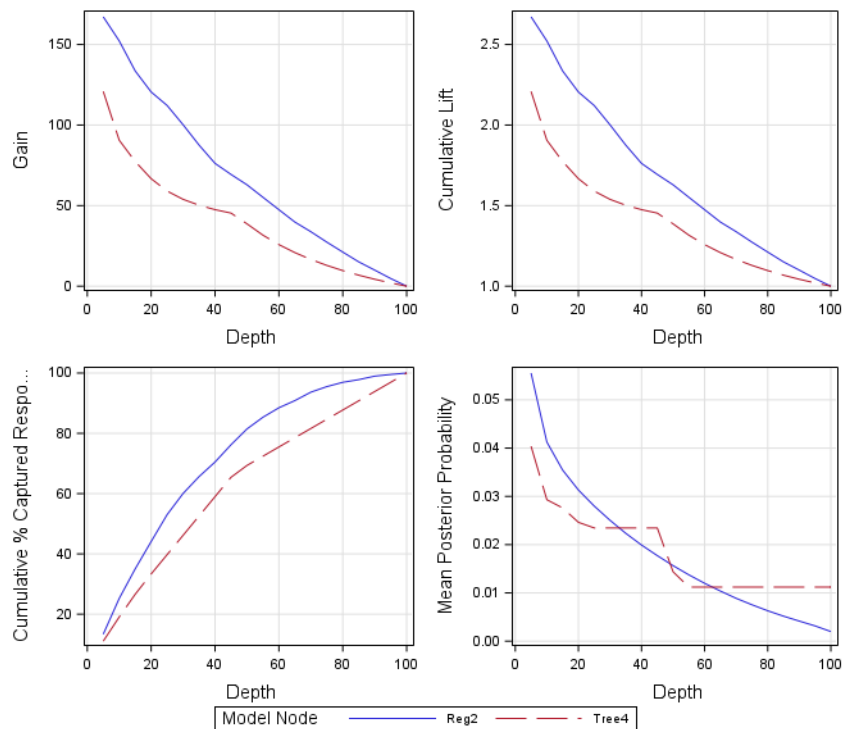TARGET='Diabetes_Prediction' and _TYPE_='PREDICTION'

SAS Enterprise Miner Report

Node=Predict Model Comparison
Multiple Model Assessment Scores where DataRole=TEST
TARGET='Diabetes_Prediction'
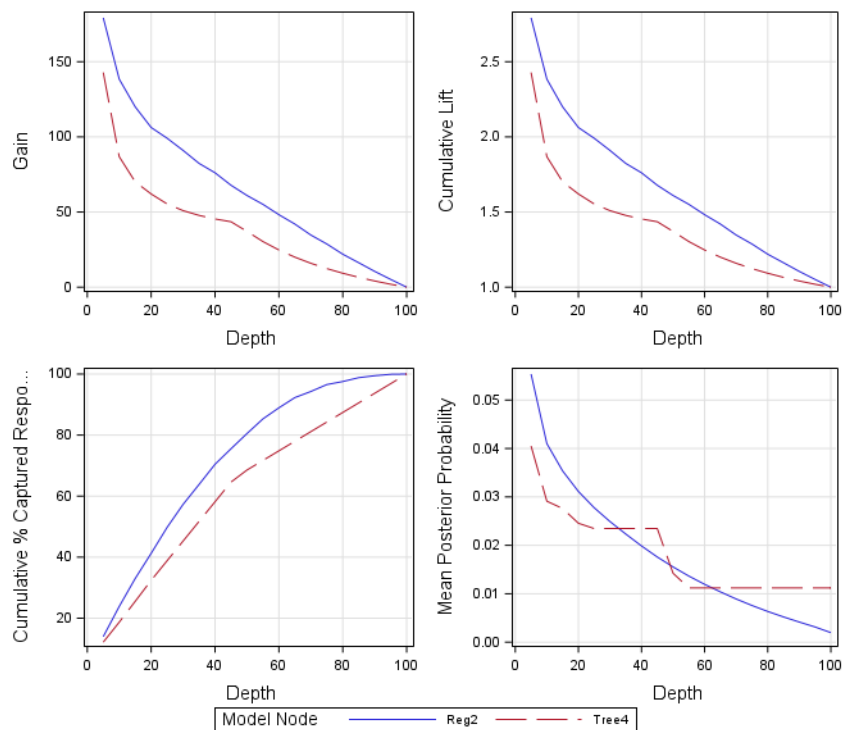
SAS Enterprise Miner Report

Node=Predict Model Comparison
Multiple Model Assessment Scores where DataRole=TRAIN
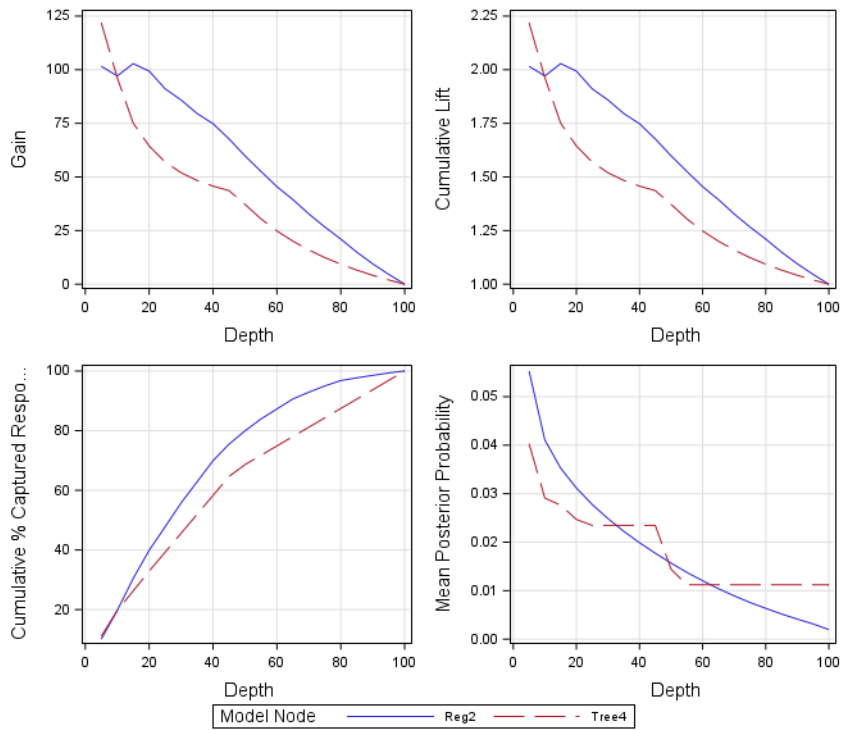TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report
Node=Predict Model Comparison
Multiple Model Assessment Scores where DataRole=VALIDATE
TARGET='Diabetes_Prediction'

SAS Enterprise Miner Report

Node=Score
Summary

Node id = Score
Node label = Score
Meta path = lds3 => Part => Tree4 => MdlComp => MdlComp3 => 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	NOMINAL	1	Diabetes_Prediction
SEGMENT	NOMINAL	1	_NODE_

Node=Score
Output Variables

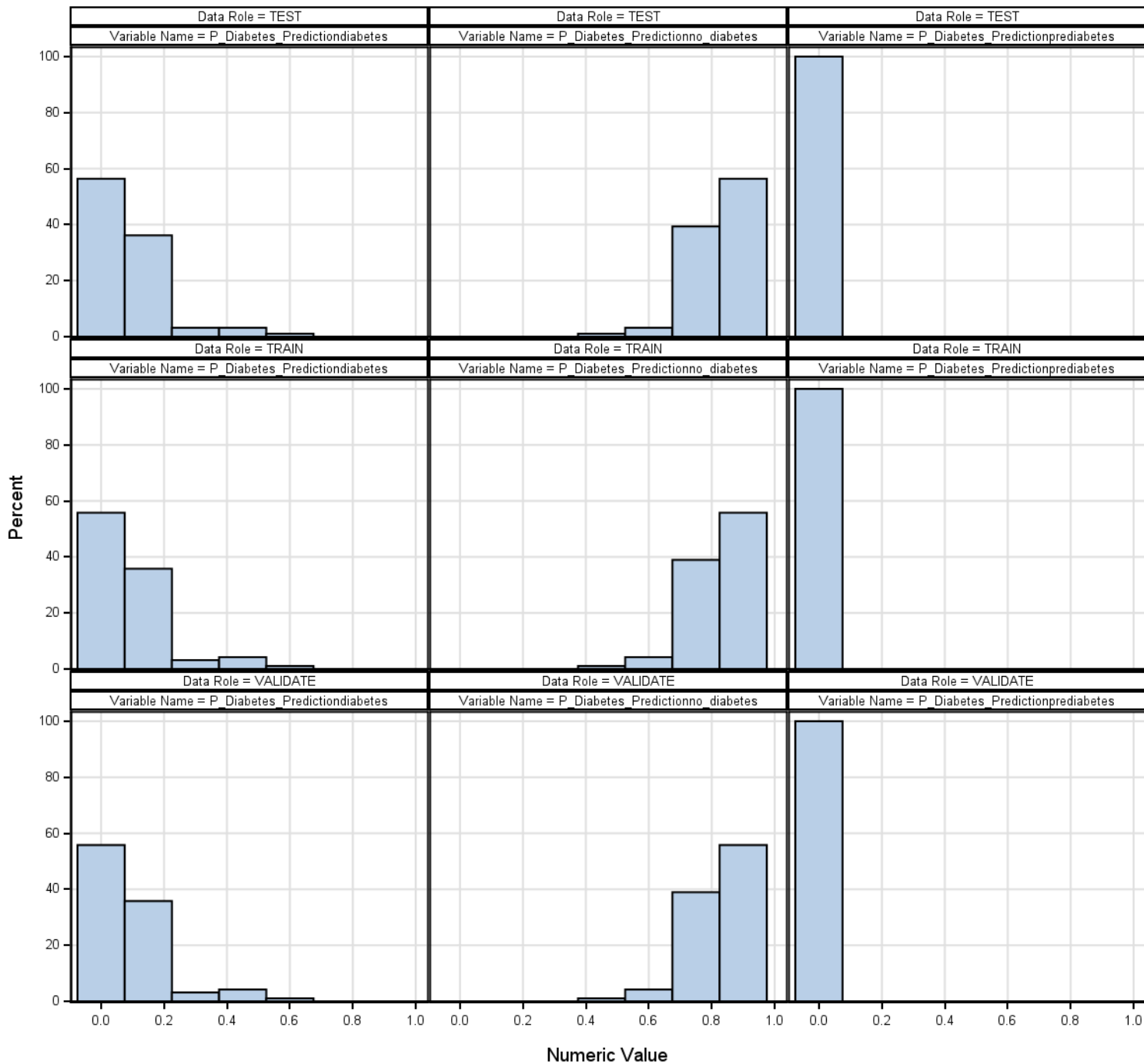| Variable Name	Creator	Variable Label	Function	Type
EM_CLASSIFICATION	Score	Prediction for Diabetes_Prediction	CLASSIFICATION	C
EM_EVENTPROBABILITY	Score	Probability for level PREDIABETES of Diabetes_Prediction	PREDICT	N
EM_PROBABILITY	Score	Probability of Classification	PREDICT	N
EM_SEGMENT	Score	Node	TRANSFORM	N
I_Diabetes_Prediction	Tree4	Into: Diabetes_Prediction	CLASSIFICATION	C
P_Diabetes_Predictiondiabetes	Tree4	Predicted: Diabetes_Prediction=diabetes	PREDICT	N
P_Diabetes_Predictionno_diabetes	Tree4	Predicted: Diabetes_Prediction=no diabetes	PREDICT	N
P_Diabetes_Predictionprediabetes	Tree4	Predicted: Diabetes_Prediction=prediabetes	PREDICT	N
Q_Diabetes_Predictiondiabetes	Tree4	Unadjusted P: Diabetes_Prediction=diabetes	TRANSFORM	N
Q_Diabetes_Predictionno_diabetes	Tree4	Unadjusted P: Diabetes_Prediction=no diabetes	TRANSFORM	N
Q_Diabetes_Predictionprediabetes	Tree4	Unadjusted P: Diabetes_Prediction=prediabetes	TRANSFORM	N
U_Diabetes_Prediction	Tree4	Unnormalized Into: Diabetes_Prediction	CLASSIFICATION	C
V_Diabetes_Predictiondiabetes	Tree4	Validated: Diabetes_Prediction=diabetes	PREDICT	N
V_Diabetes_Predictionno_diabetes	Tree4	Validated: Diabetes_Prediction=no diabetes	PREDICT	N
V_Diabetes_Predictionprediabetes	Tree4	Validated: Diabetes_Prediction=prediabetes	PREDICT	N
NODE	Tree4	Node	TRANSFORM	N
WARN	Tree4	Warnings	ASSESS	C

SAS Enterprise Miner Report
Node=Score
Bar Chart
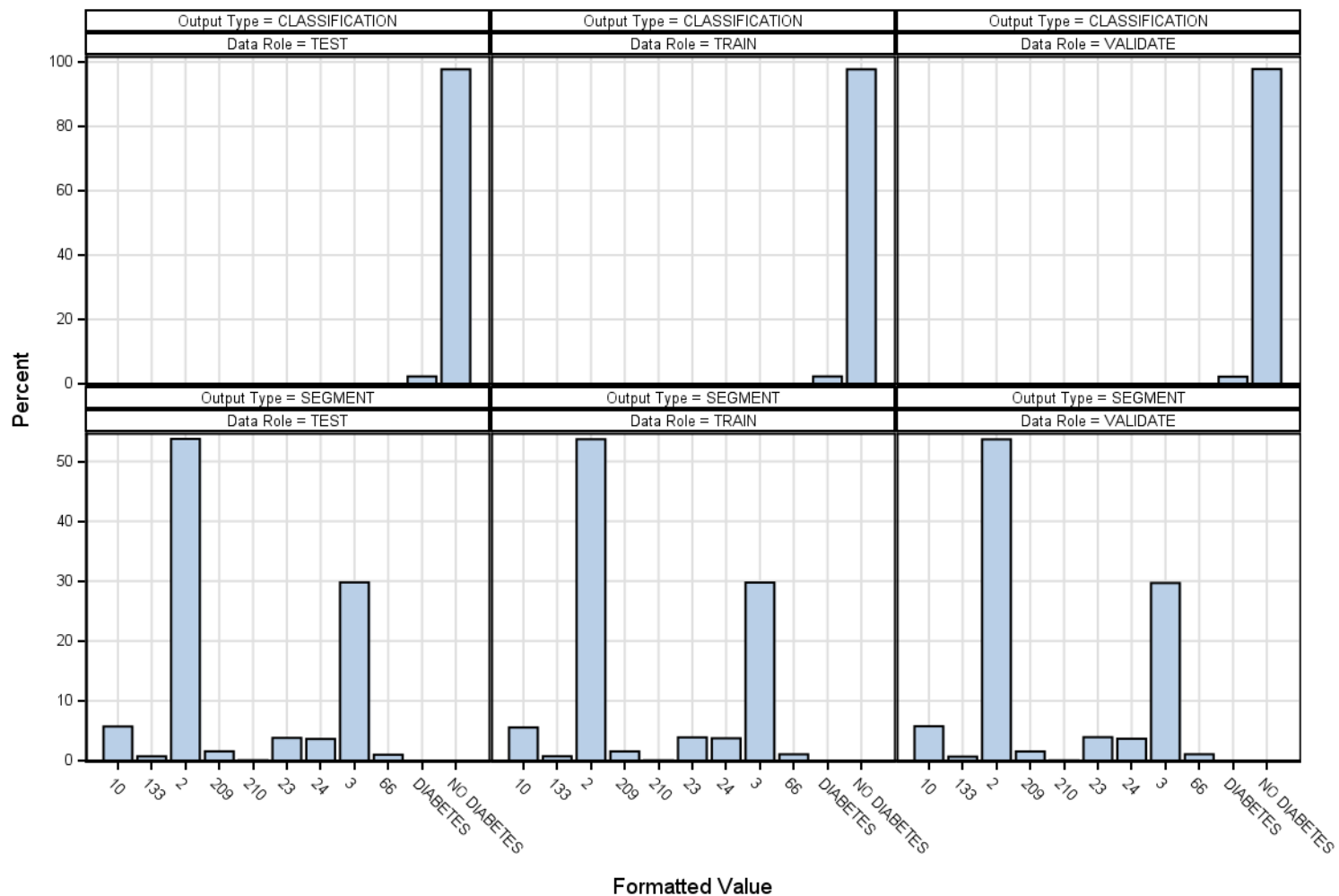
SAS Enterprise Miner Report
Node=Score
Histogram

End of Report