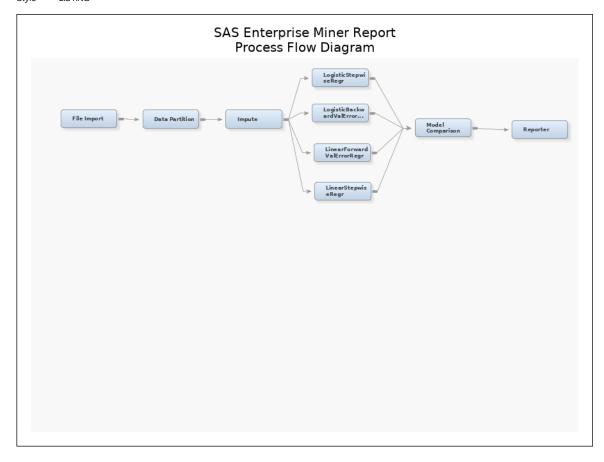
User = u47160410 Date = 20:17:32 June 05 Project = Semestrovka Diagram = Semestrovka

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

Format = PDF Style = LISTING



Node=File Import Summary

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

Node=File Import Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	FileImport		GuessRows	500		NameRow	Υ	
AccessTable	NoTableName		IFileName	C:\Users\Дмитрий\Documents\GitHub\Podlevskikh_Dmitrii_11_808\Data_Analysis\ Semestrovka\update_credit_train.csv		Password	NoPassword	
AdvancedAdvisor	N		ImportType	Local	LOCAL	Role	TRAIN	
Delimiter	,		MaxCols	10000		SkipRows	0	
FileType	csv	XLS	MaxRows	1000000		Summarize	N	

Node=File Import Data Attributes

Attribute	Value	Attribute	Value	Attribute	Value
Data Name	FIMPORT_DATA	Date Created	05Jun2020:19:58:12	Data Size	11404288
Data Type	DATA	Date Modified	05Jun2020:19:58:12	Role	TRAIN
Data Label		Number Rows	100514	Segment	
Engine	V9	Number Columns	14	Data Library	EMWS1

Node=File Import Variables List

Name	Label	Role	Level	Туре	Length	Format	Creator
Annual_Income	Annual Income	INPUT	INTERVAL	N	8	BEST12.0	
Bankruptcies		INPUT	INTERVAL	N	8	BEST12.0	
Credit_Score	Credit Score	INPUT	INTERVAL	N	8	BEST12.0	
Current_Credit_Balance	Current Credit Balance	INPUT	INTERVAL	N	8	BEST12.0	
Current_Loan_Amount	Current Loan Amount	INPUT	INTERVAL	N	8	BEST12.0	
Loan_Status	Loan Status	TARGET	BINARY	N	8	BEST12.0	
Maximum_Open_Credit	Maximum Open Credit	INPUT	INTERVAL	N	8	BEST12.0	
Monthly_Debt	Monthly Debt	INPUT	INTERVAL	N	8	BEST12.0	
Months_since_last_delinquent	Months since last delinquent	INPUT	INTERVAL	N	8	BEST12.0	
Number_of_Credit_Problems	Number of Credit Problems	INPUT	INTERVAL	N	8	BEST12.0	
Number_of_Open_Accounts	Number of Open Accounts	INPUT	INTERVAL	N	8	BEST12.0	
Tax_Liens	Tax Liens	INPUT	INTERVAL	N	8	BEST12.0	
VAR1		INPUT	INTERVAL	N	8	BEST12.0	
Years_of_Credit_History	Years of Credit History	INPUT	INTERVAL	N	8	BEST12.0	

Node=File Import Created Variables List

Node=Data Partition Summary

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

Node=Data Partition Properties

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

Node=Data Partition Variable Summary

Role	Level	Frequency Count	Name
TARGET	BINARY	1	Loan_Status
INPUT	INTERVAL	13	Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=Impute Summary

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

Node=Impute Properties

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

Node=Impute Variable Summary

Role	Level	Frequency Count	Name
INPUT	INTERVAL		Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=LinearStepwiseRegr Summary

Node id = Reg4 Node label = LinearStepwiseRegr Meta path = FIMPORT => Part => Impt => Reg4 Notes =

Node=LinearStepwiseRegr Properties

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

Node=LinearStepwiseRegr Variable Summary

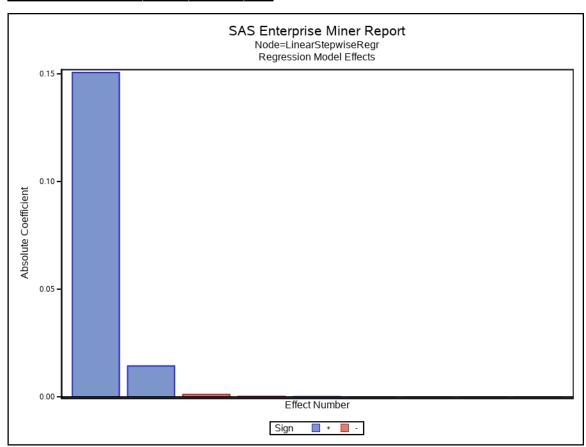
Role	Level	Frequency Count	Name
TARGET	BINARY	1	Loan_Status
INPUT	INTERVAL	13	Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=LinearStepwiseRegr Model Fit Statistics

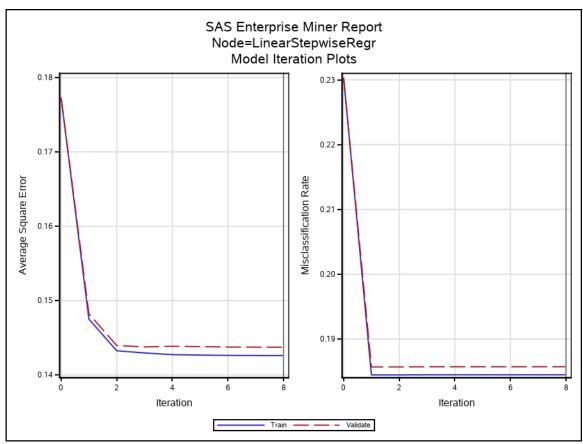
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	-97868.08		
Average Squared Error	0.14	0.14	
Average Error Function	0.14	0.14	
Degrees of Freedom for Error	50248.00		
Model Degrees of Freedom	9.00		
Total Degrees of Freedom	50257.00		
Divisor for ASE	50257.00	50257.00	

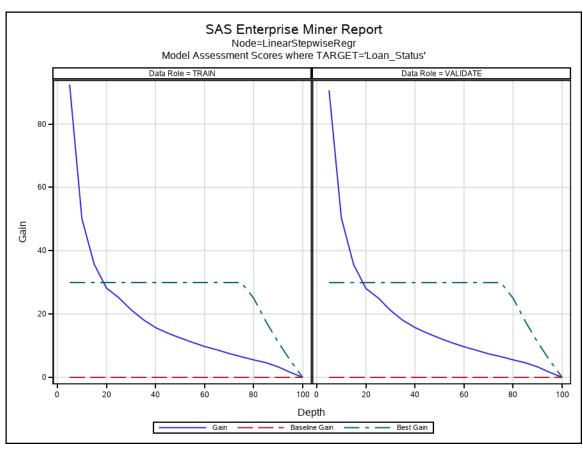
Target=Loan_Status Target Label=Loan Status

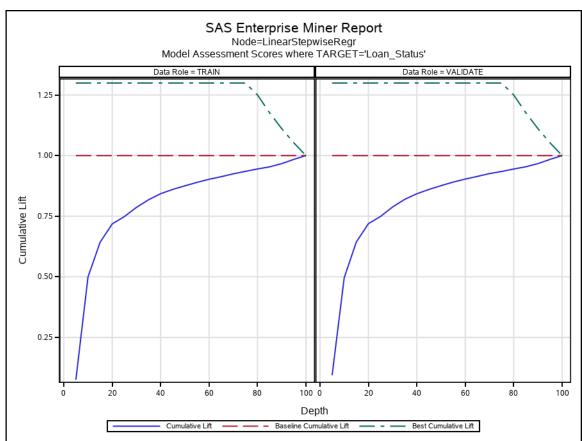
Label of Statistic	Train	Validation	Test
Error Function	7166.66	7223.31	
Final Prediction Error	0.14		
Maximum Absolute Error	1.51	5.01	
Mean Square Error	0.14	0.14	
Sum of Frequencies	50257.00	50257.00	
Number of Estimate Weights	9.00		
Root Average Sum of Squares	0.38	0.38	
Root Final Prediction Error	0.38		
Root Mean Squared Error	0.38	0.38	
Schwarz's Bayesian Criterion	-97788.66		
Sum of Squared Errors	7166.66	7223.31	
Sum of Case Weights Times Freq	50257.00	50257.00	
Misclassification Rate	0.18	0.19	

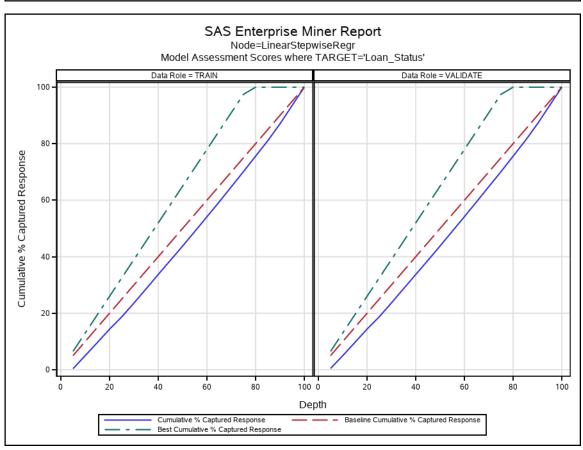


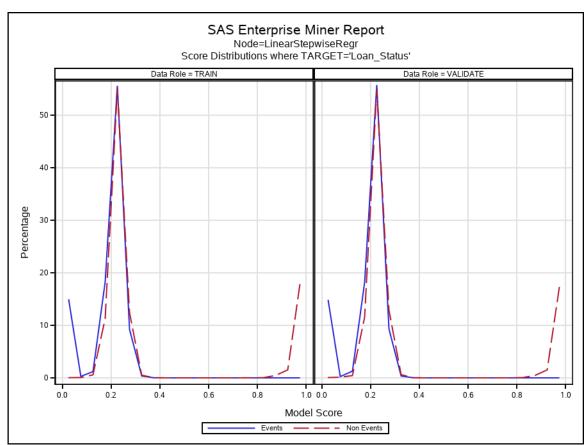
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept		0.15063	20.2509	0.000000	6	Monthly_Debt		0.000001549	9.5104	1.9808E-21
2	Tax_Liens		0.01435	2.2941	0.021788	7	VAR1		0.000000225	3.8766	.000106057
3	Years_of_Credit_History		-0.00113	-4.5900	0.000004	8	Annual_Income		000000031	-13.0624	6.2479E-39
4	Months_since_last_delinquent		-0.00023	-2.0395	0.041402	9	Current_Loan_Amount		000000002	-38.2721	0
5	Credit_Score		0.00012	97.8741	0.000000						

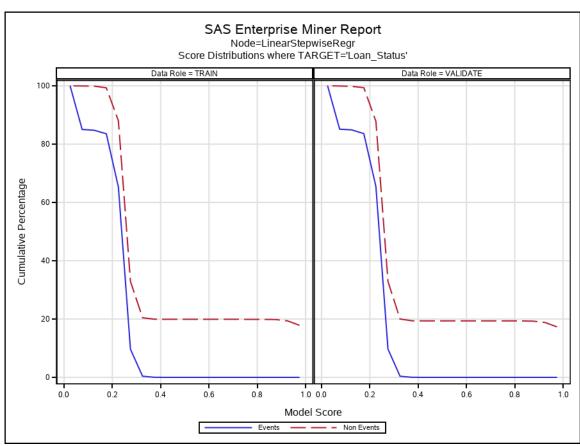












Node=LinearStepwiseRegr Score Distributions

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	0	0.0000	17.8544	0.000	17.854
0.90-0.95	0	0.0000	1.5289	0.000	19.383
0.85-0.90	0	0.0000	0.4578	0.000	19.841
0.80-0.85	0	0.0000	0.0432	0.000	19.884
0.75-0.80	0	0.0000	0.0173	0.000	19.902
0.70-0.75	0	0.0000	0.0086	0.000	19.910
0.65-0.70	0	0.0000	0.0086	0.000	19.919
0.40-0.45	3	0.0078	0.0000	0.008	19.919
0.35-0.40	9	0.0233	0.0173	0.031	19.936
0.30-0.35	144	0.3723	0.5183	0.403	20.454
0.25-0.30	3572	9.2347	12.4385	9.638	32.893
0.20-0.25	21515	55.6231	55.1179	65.261	88.011
0.15-0.20	7073	18.2859	11.2983	83.547	99.309
0.10-0.15	466	1.2048	0.5787	84.752	99.888
0.05-0.10	107	0.2766	0.0605	85.028	99.948
0.00-0.05	5791	14.9716	0.0518	100.000	100.000

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	0	0.0000	17.3117	0.000	17.312
0.90-0.95	0	0.0000	1.5204	0.000	18.832
0.85-0.90	0	0.0000	0.4665	0.000	19.299
0.80-0.85	0	0.0000	0.0605	0.000	19.359
0.75-0.80	0	0.0000	0.0086	0.000	19.368
0.55-0.60	0	0.0000	0.0086	0.000	19.376
0.45-0.50	1	0.0026	0.0000	0.003	19.376
0.40-0.45	1	0.0026	0.0000	0.005	19.376
0.35-0.40	10	0.0259	0.0259	0.031	19.402
0.30-0.35	140	0.3619	0.6133	0.393	20.016
0.25-0.30	3606	9.3224	12.8887	9.715	32.904
0.20-0.25	21567	55.7561	54.9413	65.471	87.846
0.15-0.20	7012	18.1278	11.5152	83.599	99.361
0.10-0.15	494	1.2771	0.4406	84.876	99.801
0.05-0.10	97	0.2508	0.1296	85.127	99.931
0.00-0.05	5753	14.8729	0.0691	100.000	100.000

Node=LinearForwardValErrorRegr Summary

Node id = Reg3 Node label = LinearForwardValErrorRegr Meta path = FIMPORT => Part => Impt => Reg3 Notes =

Node=LinearForwardValErrorRegr Properties

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

Node=LinearForwardValErrorRegr Variable Summary

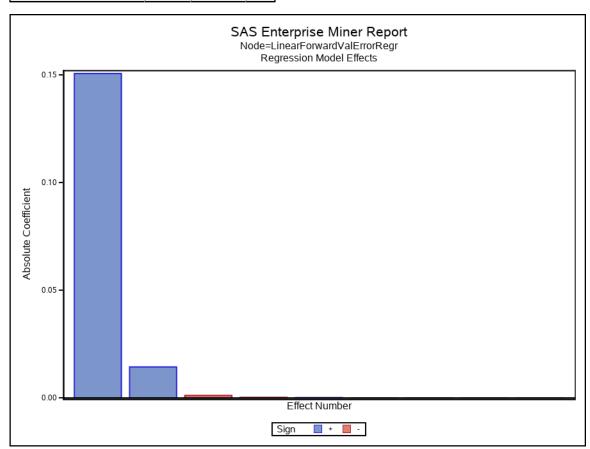
Role	Level	Frequency Count	Name
TARGET	BINARY	1	Loan_Status
INPUT	INTERVAL	13	Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=LinearForwardValErrorRegr Model Fit Statistics

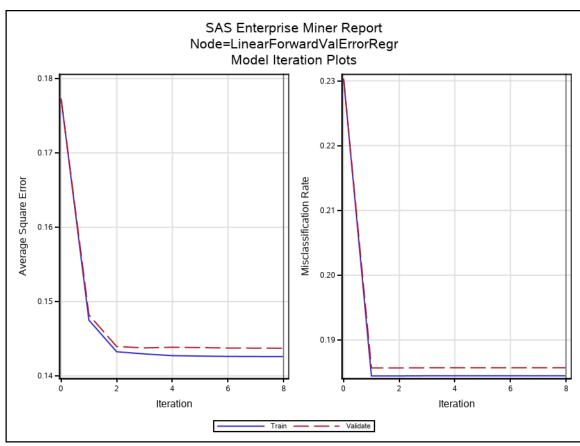
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	-97868.08		
Average Squared Error	0.14	0.14	
Average Error Function	0.14	0.14	
Degrees of Freedom for Error	50248.00		
Model Degrees of Freedom	9.00		
Total Degrees of Freedom	50257.00		
Divisor for ASE	50257.00	50257.00	

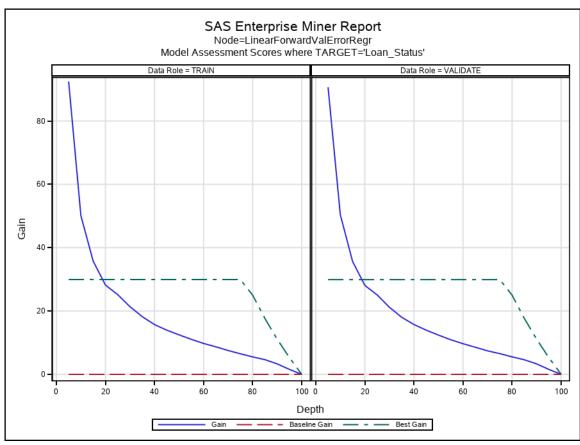
Target=Loan_Status Target Label=Loan Status

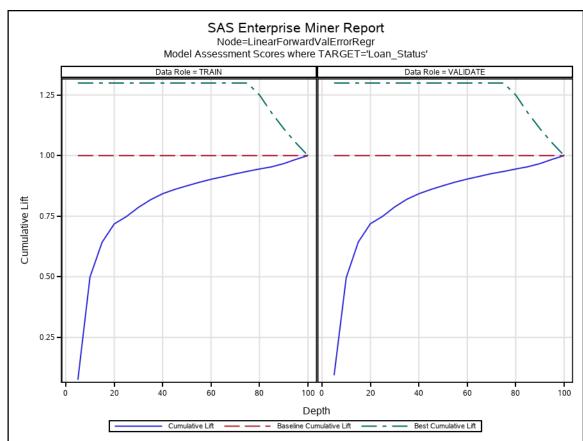
Label of Statistic	Train	Validation	Test
Error Function	7166.66	7223.31	
Final Prediction Error	0.14		
Maximum Absolute Error	1.51	5.01	
Mean Square Error	0.14	0.14	
Sum of Frequencies	50257.00	50257.00	
Number of Estimate Weights	9.00		
Root Average Sum of Squares	0.38	0.38	
Root Final Prediction Error	0.38		
Root Mean Squared Error	0.38	0.38	
Schwarz's Bayesian Criterion	-97788.66		
Sum of Squared Errors	7166.66	7223.31	
Sum of Case Weights Times Freq	50257.00	50257.00	
Misclassification Rate	0.18	0.19	

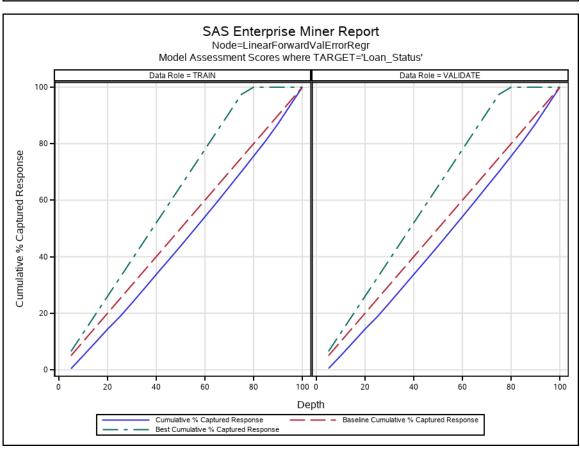


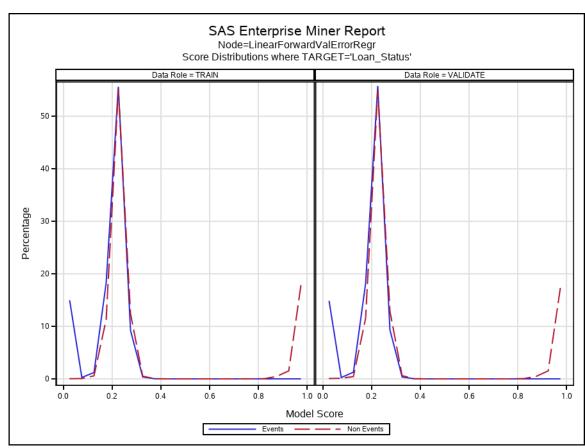
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept		0.15063	20.2509	0.000000	6	Monthly_Debt		0.000001549	9.5104	1.9808E-21
2	Tax_Liens		0.01435	2.2941	0.021788	7	VAR1		0.000000225	3.8766	.000106057
3	Years_of_Credit_History		-0.00113	-4.5900	0.000004	8	Annual_Income		000000031	-13.0624	6.2479E-39
4	Months_since_last_delinquent		-0.00023	-2.0395	0.041402	9	Current_Loan_Amount		000000002	-38.2721	0
5	Credit_Score		0.00012	97.8741	0.000000						

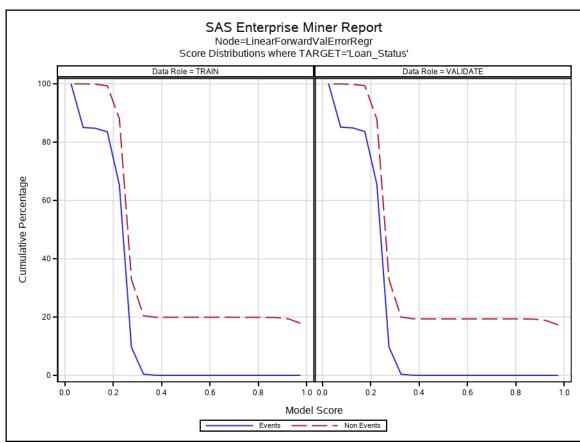












Node=LinearForwardValErrorRegr Score Distributions

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	0	0.0000	17.8544	0.000	17.854
0.90-0.95	0	0.0000	1.5289	0.000	19.383
0.85-0.90	0	0.0000	0.4578	0.000	19.841
0.80-0.85	0	0.0000	0.0432	0.000	19.884
0.75-0.80	0	0.0000	0.0173	0.000	19.902
0.70-0.75	0	0.0000	0.0086	0.000	19.910
0.65-0.70	0	0.0000	0.0086	0.000	19.919
0.40-0.45	3	0.0078	0.0000	0.008	19.919
0.35-0.40	9	0.0233	0.0173	0.031	19.936
0.30-0.35	144	0.3723	0.5183	0.403	20.454
0.25-0.30	3572	9.2347	12.4385	9.638	32.893
0.20-0.25	21515	55.6231	55.1179	65.261	88.011
0.15-0.20	7073	18.2859	11.2983	83.547	99.309
0.10-0.15	466	1.2048	0.5787	84.752	99.888
0.05-0.10	107	0.2766	0.0605	85.028	99.948
0.00-0.05	5791	14.9716	0.0518	100.000	100.000

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	0	0.0000	17.3117	0.000	17.312
0.90-0.95	0	0.0000	1.5204	0.000	18.832
0.85-0.90	0	0.0000	0.4665	0.000	19.299
0.80-0.85	0	0.0000	0.0605	0.000	19.359
0.75-0.80	0	0.0000	0.0086	0.000	19.368
0.55-0.60	0	0.0000	0.0086	0.000	19.376
0.45-0.50	1	0.0026	0.0000	0.003	19.376
0.40-0.45	1	0.0026	0.0000	0.005	19.376
0.35-0.40	10	0.0259	0.0259	0.031	19.402
0.30-0.35	140	0.3619	0.6133	0.393	20.016
0.25-0.30	3606	9.3224	12.8887	9.715	32.904
0.20-0.25	21567	55.7561	54.9413	65.471	87.846
0.15-0.20	7012	18.1278	11.5152	83.599	99.361
0.10-0.15	494	1.2771	0.4406	84.876	99.801
0.05-0.10	97	0.2508	0.1296	85.127	99.931
0.00-0.05	5753	14.8729	0.0691	100.000	100.000

Node=LogisticBackwardValErrorRegr Summary

Node id = Reg2 Node label = LogisticBackwardValErrorRegr Meta path = FIMPORT => Part => Impt => Reg2 Notes =

Node=LogisticBackwardValErrorRegr Properties

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

Node=LogisticBackwardValErrorRegr Variable Summary

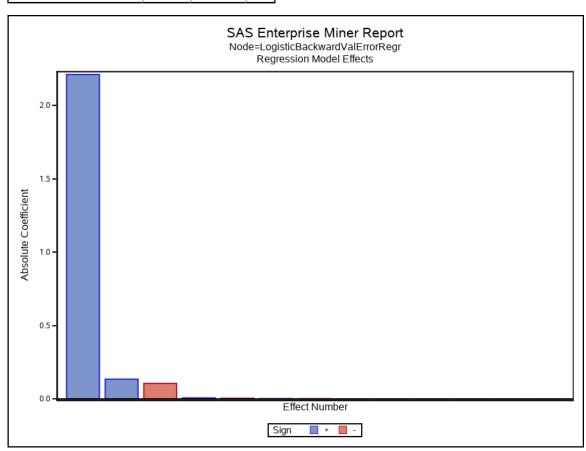
Role	Level	Frequency Count	Name
TARGET	BINARY	1	Loan_Status
INPUT	INTERVAL	13	Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=LogisticBackwardValErrorRegr Model Fit Statistics

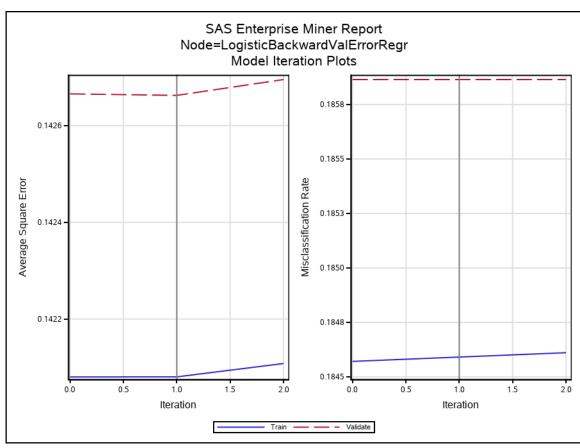
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	44006.04		
Average Squared Error	0.14	0.14	
Average Error Function	0.44	0.44	
Degrees of Freedom for Error	50244.00		
Model Degrees of Freedom	13.00		
Total Degrees of Freedom	50257.00		
Divisor for ASE	100514.00	100514.00	

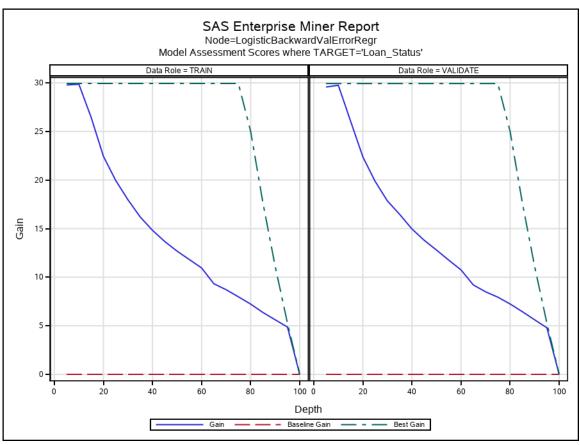
Target=Loan_Status Target Label=Loan Status

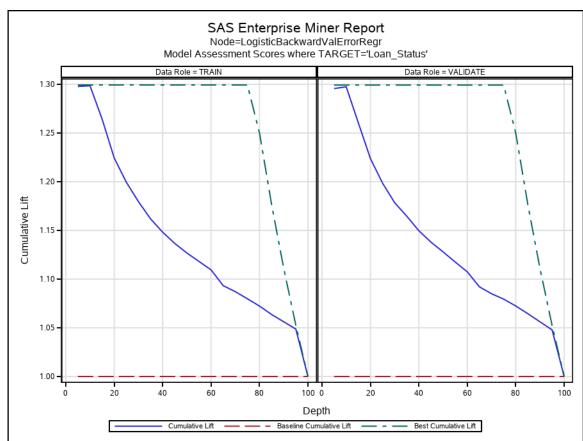
Label of Statistic	Train	Validation	Test
Error Function	43980.04	44212.81	
Final Prediction Error	0.14		
Maximum Absolute Error	1.00	1.00	
Mean Square Error	0.14	0.14	
Sum of Frequencies	50257.00	50257.00	
Number of Estimate Weights	13.00		
Root Average Sum of Squares	0.38	0.38	
Root Final Prediction Error	0.38		
Root Mean Squared Error	0.38	0.38	
Schwarz's Bayesian Criterion	44120.76		
Sum of Squared Errors	14281.08	14339.58	
Sum of Case Weights Times Freq	100514.00	100514.00	
Misclassification Rate	0.18	0.19	

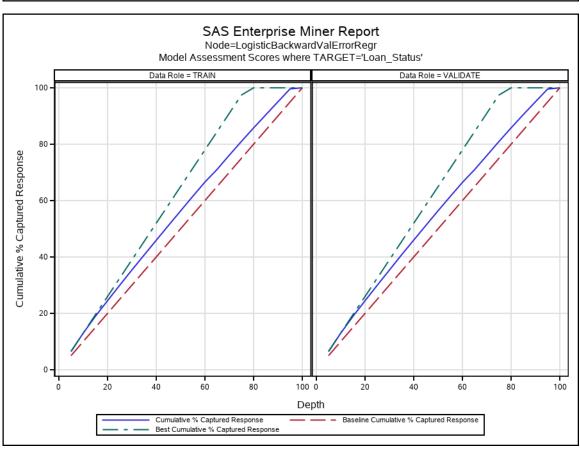


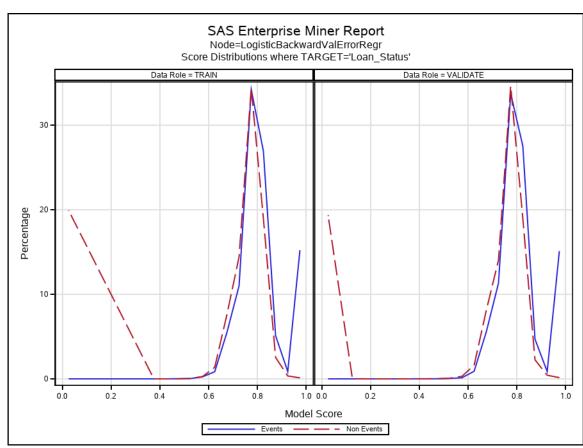
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	2.21050	28.6919	0.00000	8	Monthly_Debt		000012649	-9.1879	0.000000
2	Bankruptcies		0.13435	2.7253	0.00642	9	VAR1		000001669	-4.0806	0.000045
3	Number_of_Credit_Problems		-0.10486	-3.0907	0.00200	10	Annual_Income		0.000000322	14.1576	0.000000
4	Years_of_Credit_History		0.00658	3.6433	0.00027	11	Current_Credit_Balance		000000156	-2.5344	0.011263
5	Number_of_Open_Accounts		-0.00410	-1.5257	0.12708	12	Maximum_Open_Credit		0.00000123	4.6122	0.000004
6	Months_since_last_delinquent		0.00190	2.3637	0.01809	13	Current_Loan_Amount		0.00000040	20.3996	0.000000
7	Credit_Score		-0.00153	-22.7535	0.00000						

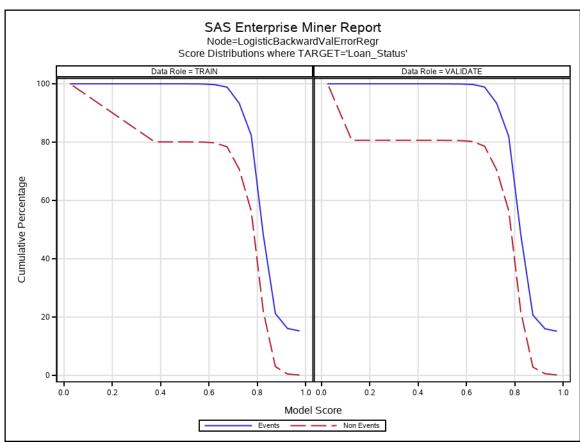












Node=LogisticBackwardValErrorRegr Score Distributions

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	5891	15.2301	0.1209	15.230	0.121
0.90-0.95	334	0.8635	0.3455	16.094	0.466
0.85-0.90	1979	5.1163	2.5395	21.210	3.006
0.80-0.85	10416	26.9286	18.9341	48.139	21.940
0.75-0.80	13238	34.2244	34.4131	82.363	56.353
0.70-0.75	4257	11.0057	14.4338	93.369	70.787
0.65-0.70	2121	5.4835	7.5926	98.852	78.380
0.60-0.65	327	0.8454	1.3648	99.698	79.744
0.55-0.60	94	0.2430	0.2764	99.941	80.021
0.50-0.55	15	0.0388	0.0432	99.979	80.064
0.45-0.50	6	0.0155	0.0173	99.995	80.081
0.40-0.45	1	0.0026	0.0000	99.997	80.081
0.35-0.40	1	0.0026	0.0000	100.000	80.081
0.00-0.05	0	0.0000	19.9188	100.000	100.000

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	5849	15.1211	0.1469	15.121	0.147
0.90-0.95	334	0.8635	0.4319	15.985	0.579
0.85-0.90	1817	4.6974	2.2547	20.682	2.833
0.80-0.85	10655	27.5458	18.9616	48.228	21.795
0.75-0.80	13060	33.7633	34.6406	81.991	56.436
0.70-0.75	4380	11.3234	14.0549	93.315	70.491
0.65-0.70	2157	5.5764	8.1202	98.891	78.611
0.60-0.65	350	0.9048	1.6154	99.796	80.226
0.55-0.60	51	0.1318	0.3023	99.928	80.529
0.50-0.55	18	0.0465	0.0777	99.974	80.606
0.45-0.50	5	0.0129	0.0259	99.987	80.632
0.40-0.45	3	0.0078	0.0000	99.995	80.632
0.30-0.35	2	0.0052	0.0000	100.000	80.632
0.10-0.15	0	0.0000	0.0086	100.000	80.641
0.00-0.05	0	0.0000	19.3590	100.000	100.000

Node=LogisticStepwiseRegr Summary

Node id = Reg Node label = LogisticStepwiseRegr Meta path = FIMPORT => Part => Impt => Reg Notes =

Node=LogisticStepwiseRegr Properties

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

Node=LogisticStepwiseRegr Variable Summary

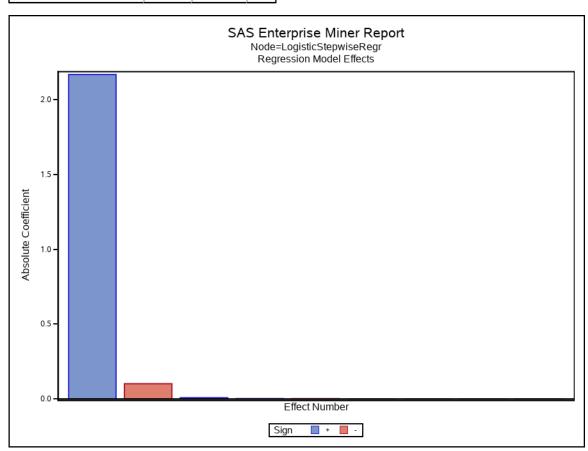
Role	Level	Frequency Count	Name
TARGET	BINARY	1	Loan_Status
INPUT	INTERVAL	13	Annual_Income Bankruptcies Credit_Score Current_Credit_Balance Current_Loan_Amount Maximum_Open_Credit Monthly_Debt Months_since_last_delinquent Number_of_Credit_Problems Number_of_Open_Accounts

Node=LogisticStepwiseRegr Model Fit Statistics

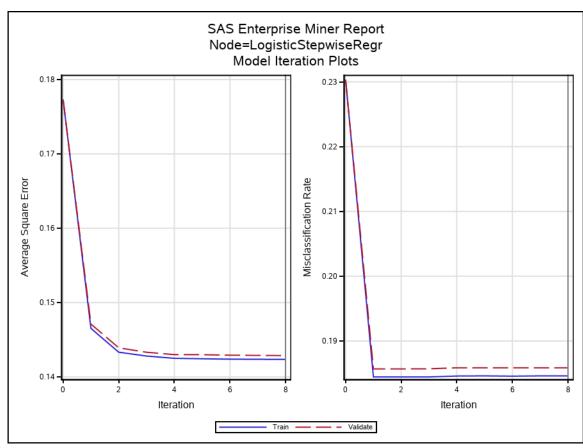
Label of Statistic	Train	Validation	Test
Akaike's Information Criterion	44038.35		
Average Squared Error	0.14	0.14	
Average Error Function	0.44	0.44	
Degrees of Freedom for Error	50248.00		
Model Degrees of Freedom	9.00		
Total Degrees of Freedom	50257.00		
Divisor for ASE	100514.00	100514.00	

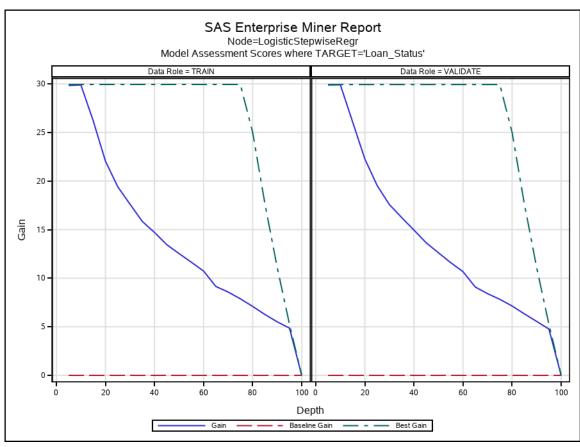
Target=Loan_Status Target Label=Loan Status

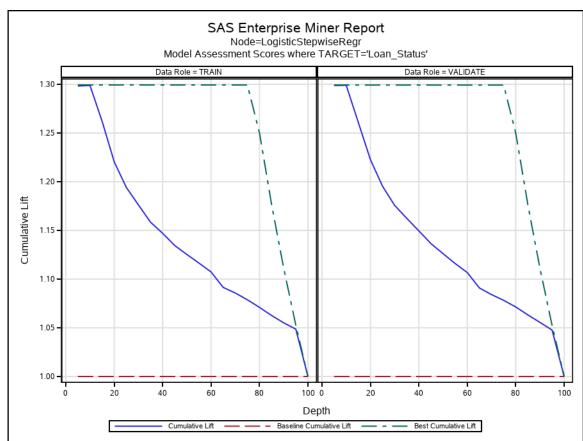
Label of Statistic	Train	Validation	Test
Error Function	44020.35	44189.64	
Final Prediction Error	0.14		
Maximum Absolute Error	1.00	1.00	
Mean Square Error	0.14	0.14	
Sum of Frequencies	50257.00	50257.00	
Number of Estimate Weights	9.00		
Root Average Sum of Squares	0.38	0.38	
Root Final Prediction Error	0.38		
Root Mean Squared Error	0.38	0.38	
Schwarz's Bayesian Criterion	44117.77		
Sum of Squared Errors	14309.31	14360.65	
Sum of Case Weights Times Freq	100514.00	100514.00	
Misclassification Rate	0.18	0.19	

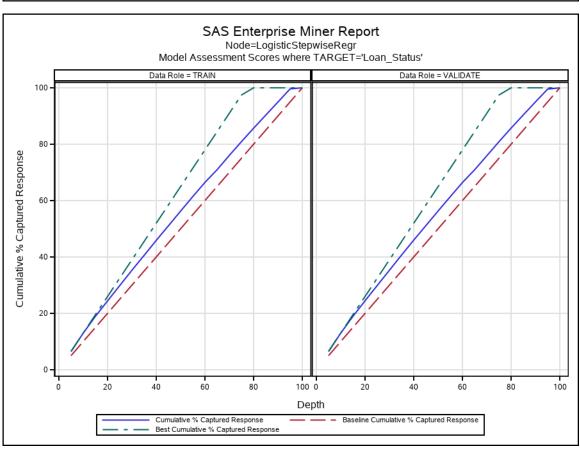


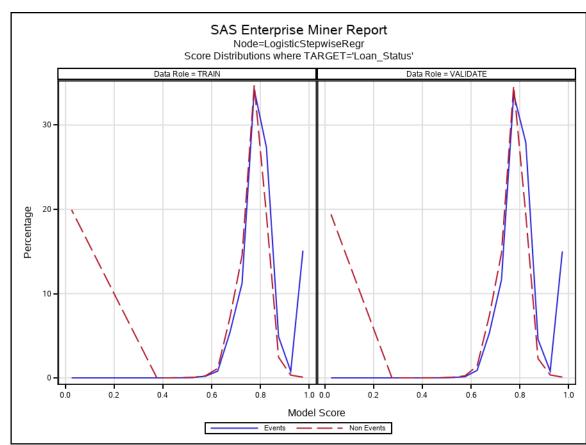
Effect Number	Variable	Level	Coefficient	T-value	P Value	Effect Number	Variable	Level	Coefficient	T-value	P Value
1	Intercept	1	2.16803	29.3452	0.000000	6	Monthly_Debt		000013191	-11.1978	4.1799E-29
2	Tax_Liens		-0.10115	-2.4299	0.015104	7	VAR1		000001669	-4.0807	.000044901
3	Years_of_Credit_History		0.00764	4.3171	0.000016	8	Annual_Income		0.000000332	14.6697	1.0084E-48
4	Months_since_last_delinquent		0.00184	2.3012	0.021379	9	Current_Loan_Amount		0.000000040	20.3958	1.8224E-92
5	Credit_Score		-0.00152	-22.6311	0.000000						

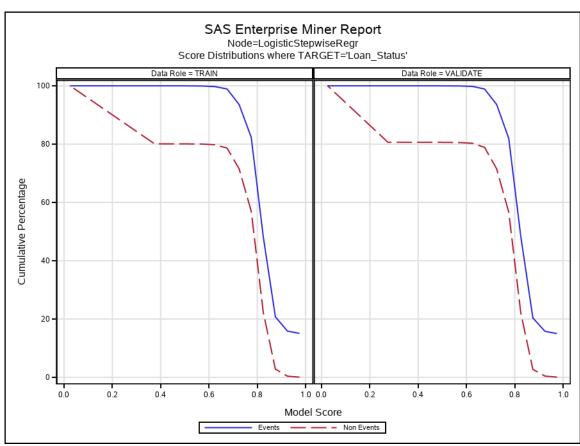












Node=LogisticStepwiseRegr Score Distributions

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	5841	15.1008	0.0864	15.101	0.086
0.90-0.95	300	0.7756	0.3196	15.876	0.406
0.85-0.90	1889	4.8837	2.4445	20.760	2.850
0.80-0.85	10583	27.3604	19.3833	48.120	22.234
0.75-0.80	13226	34.1934	34.7499	82.314	56.984
0.70-0.75	4345	11.2332	14.5202	93.547	71.504
0.65-0.70	2077	5.3697	7.1348	98.917	78.639
0.60-0.65	310	0.8014	1.1229	99.718	79.762
0.55-0.60	79	0.2042	0.2505	99.922	80.012
0.50-0.55	21	0.0543	0.0518	99.977	80.064
0.45-0.50	6	0.0155	0.0173	99.992	80.081
0.40-0.45	2	0.0052	0.0000	99.997	80.081
0.35-0.40	1	0.0026	0.0000	100.000	80.081
0.00-0.05	0	0.0000	19.9188	100.000	100.000

Posterior Probability Range	Number of Events	Percentage of Events	Percentage of Nonevents	Cumulative Percentage of Events	Cumulative Percentage of Nonevents
0.95-1.00	5805	15.0074	0.0950	15.007	0.095
0.90-0.95	306	0.7911	0.3455	15.798	0.441
0.85-0.90	1770	4.5759	2.2979	20.374	2.738
0.80-0.85	10795	27.9078	19.3072	48.282	22.046
0.75-0.80	13026	33.6754	34.6406	81.958	56.686
0.70-0.75	4498	11.6284	14.8151	93.586	71.501
0.65-0.70	2054	5.3101	7.3773	98.896	78.879
0.60-0.65	345	0.8919	1.4081	99.788	80.287
0.55-0.60	55	0.1422	0.2419	99.930	80.529
0.50-0.55	17	0.0439	0.0777	99.974	80.606
0.45-0.50	5	0.0129	0.0173	99.987	80.624
0.40-0.45	3	0.0078	0.0000	99.995	80.624
0.30-0.35	1	0.0026	0.0000	99.997	80.624
0.25-0.30	1	0.0026	0.0000	100.000	80.624
0.00-0.05	0	0.0000	19.3763	100.000	100.000

Node=Model Comparison Summary

Node id = MdlComp Node label = Model Comparison Meta path = FIMPORT => Part => Impt => Reg3 => MdlComp Notes =

Node=Model Comparison Properties

Property	Value	Default	Property	Value	Default	Property	Value	Default
Component	ModelCompare		NumberOfReportedLevels	1E-6		SelectionData	DEFAULT	
AssessAllTargetLevels	N		NumberofBins	20		SelectionDepth	10	
DecileBin	20		ProfitEpsilon	1E-6		SelectionTable	TRAIN	TABLE
HPCriteria	DEFAULT		RecomputeAssess	N		StatisticUsed	_VMISC_	
LiftEpsilon	1E-6		RocChart	Υ		TargetLabel	Loan Status	
ModelCriteria	Valid: Misclassification Rate		RocEpsilon	0.01		TargetName	Loan_Status	
ModelDescription	LinearForwardValErrorRegr		RoiEpsilon	1E-6		classViyaCriteria	DEFAULT	
Modelid	Reg3		ScoreDistBin	20		intervalViyaCriteria	DEFAULT	
NormalizeReportingVariables	Υ		SelectionCriteria	DEFAULT				

Node=Model Comparison Variable Summary

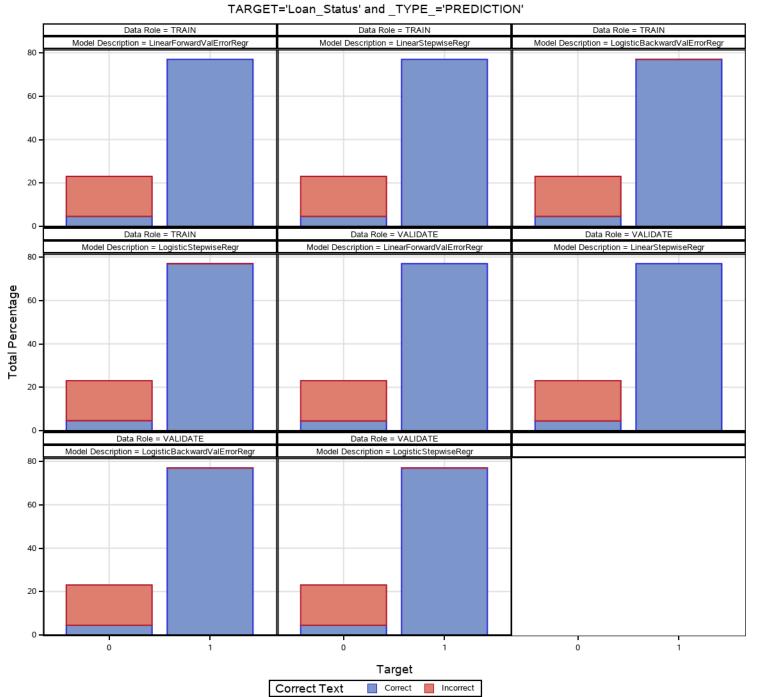
Role	Level	Frequency Count	Name	
TARGET	BINARY	1	Loan_Status	

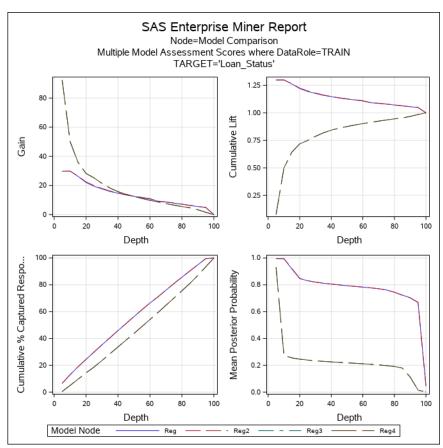
Node=Model Comparison Fit Statistics Table

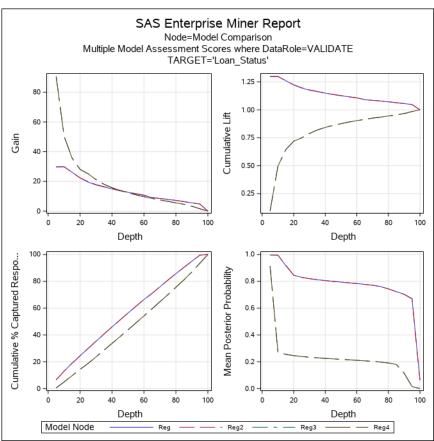
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Train: Average Squared Error	Train: Misclassification Rate	Train: Kolmogorov-Smirnov Statistic
Υ	Reg3	Reg3	LinearForwardValErrorRegr	Loan_Status	Loan Status	0.18571	0.14260	0.18447	0.279
	Reg4	Reg4	LinearStepwiseRegr	Loan_Status	Loan Status	0.18571	0.14260	0.18447	0.279
	Reg2	Reg2	LogisticBackwardValErrorRegr	Loan_Status	Loan Status	0.18586	0.14208	0.18459	0.285
	Reg	Reg	LogisticStepwiseRegr	Loan_Status	Loan Status	0.18586	0.14236	0.18461	0.280

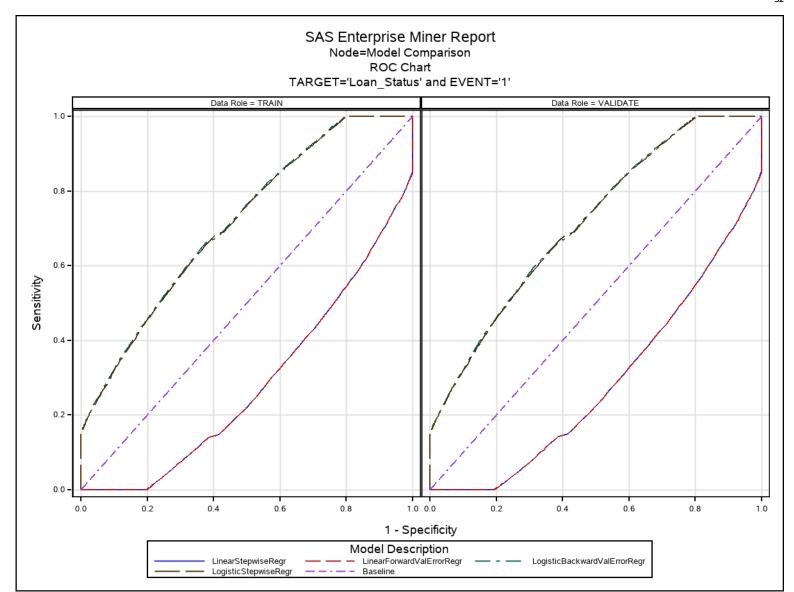
Selected Model	Predecessor Node	Model Node	Model Description	Target Variable	Target Label	Selection Criterion: Valid: Misclassification Rate	Valid: Average Squared Error	Valid: Misclassification Rate	Valid: Kolmogorov-Smirnov Statistic
Υ	Reg3	Reg3	LinearForwardValErrorRegr	Loan_Status	Loan Status	0.18571	0.14373	0.18571	0.276
	Reg4	Reg4	LinearStepwiseRegr	Loan_Status	Loan Status	0.18571	0.14373	0.18571	0.276
	Reg2	Reg2	LogisticBackwardValErrorRegr	Loan_Status	Loan Status	0.18586	0.14266	0.18586	0.285
	Reg	Reg	LogisticStepwiseRegr	Loan_Status	Loan Status	0.18586	0.14287	0.18586	0.279

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









End of Report