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Logistic Regression

Logistic Regression
Import data

Logistic Regression Variable Preparation

Logistic Regression Variable Preparation

Create binary outcome and dummy predictors

Logistic Regression Data Check

Frequencies

[LogisticData]

Statistics

		Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	school	sex	address	famsize	Pstatus	higher
N	Valid	649	649	649	649	649	649	649
	Missing	0	0	0	0	0	0	0

Statistics

		internet	schoolsup	famsup	activities
N	Valid	649	649	649	649
	Missing	0	0	0	0

Frequency Table

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Below cutoff / not pass	100	15.4	15.4	15.4
	At or above cutoff / pass	549	84.6	84.6	100.0
	Total	649	100.0	100.0	

school

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	GP	423	65.2	65.2	65.2
	MS	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

Logistic Regression Data Check

sex

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	F	383	59.0	59.0	59.0
	M	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

address

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	R	197	30.4	30.4	30.4
	U	452	69.6	69.6	100.0
	Total	649	100.0	100.0	

famsize

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	GT3	457	70.4	70.4	70.4
	LE3	192	29.6	29.6	100.0
	Total	649	100.0	100.0	

Pstatus

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	A	80	12.3	12.3	12.3
	T	569	87.7	87.7	100.0
	Total	649	100.0	100.0	

higher

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	69	10.6	10.6	10.6
	yes	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

Logistic Regression Data Check

internet

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	151	23.3	23.3	23.3
	yes	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

schoolsup

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	581	89.5	89.5	89.5
	yes	68	10.5	10.5	100.0
	Total	649	100.0	100.0	

famsup

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	251	38.7	38.7	38.7
	yes	398	61.3	61.3	100.0
	Total	649	100.0	100.0	

activities

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	no	334	51.5	51.5	51.5
	yes	315	48.5	48.5	100.0
	Total	649	100.0	100.0	

Descriptives

Logistic Regression Data Check

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Original final grade used to create binary outcome	649	0	19	11.91	3.231
First period grade	649	0	19	11.40	2.745
Second period grade	649	0	19	11.57	2.914
Weekly study time group	649	1	4	1.93	.830
Number of past class failures	649	0	3	.22	.593
School absences	649	0	32	3.66	4.641
Student age	649	15	22	16.74	1.218
Mother education	649	0	4	2.51	1.135
Father education	649	0	4	2.31	1.100
Travel time to school	649	1	4	1.57	.749
Current health status	649	1	5	3.54	1.446
Valid N (listwise)	649				

Crosstabs

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * school	649	100.0%	0	0.0%	649	100.0%
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * sex	649	100.0%	0	0.0%	649	100.0%
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * address	649	100.0%	0	0.0%	649	100.0%
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * higher	649	100.0%	0	0.0%	649	100.0%
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * internet	649	100.0%	0	0.0%	649	100.0%

Logistic Regression Data Check

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * school Crosstabulation

			school	
			GP	MS
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count	32	68
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	32.0%	68.0%
		% within school	7.6%	30.1%
	At or above cutoff / pass	Count	391	158
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	71.2%	28.8%
		% within school	92.4%	69.9%
Total	Count		423	226
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10		65.2%	34.8%
	% within school		100.0%	100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * school Crosstabulation

			Total
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count	100
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within school	15.4%
	At or above cutoff / pass	Count	549
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within school	84.6%
Total	Count		649
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10		100.0%
	% within school		100.0%

Logistic Regression Data Check

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * sex Crosstabulation

			sex	
			F	M
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10		Count	50	50
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	50.0%	50.0%
		% within sex	13.1%	18.8%
	At or above cutoff / pass	Count	333	216
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	60.7%	39.3%
		% within sex	86.9%	81.2%
Total		Count	383	266
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	59.0%	41.0%
		% within sex	100.0%	100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * sex Crosstabulation

			Total
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10		Count	100
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within sex	15.4%
	At or above cutoff / pass	Count	549
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within sex	84.6%
Total		Count	649
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within sex	100.0%

Logistic Regression Data Check

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * address Crosstabulation

			address	
			R	U
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count	44	56
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	44.0%	56.0%
		% within address	22.3%	12.4%
	At or above cutoff / pass	Count	153	396
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	27.9%	72.1%
		% within address	77.7%	87.6%
Total	Count		197	452
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10		30.4%	69.6%
	% within address		100.0%	100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * address Crosstabulation

			Total
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count	100
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within address	15.4%
	At or above cutoff / pass	Count	549
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within address	84.6%
Total	Count		649
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10		100.0%
	% within address		100.0%

Logistic Regression Data Check

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * higher Crosstabulation

		higher	
		no	yes
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10	Count	33	67
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	33.0%	67.0%
	% within higher	47.8%	11.6%
	Count	36	513
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	6.6%	93.4%
	% within higher	52.2%	88.4%
Total	Count	69	580
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	10.6%	89.4%
	% within higher	100.0%	100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * higher Crosstabulation

		Total
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10	Count	100
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within higher	15.4%
	Count	549
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within higher	84.6%
Total	Count	649
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within higher	100.0%

Logistic Regression Data Check

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * internet Crosstabulation

		internet	
		no	yes
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10	Count	32	68
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	32.0%	68.0%
	% within internet	21.2%	13.7%
	Count	119	430
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	21.7%	78.3%
	% within internet	78.8%	86.3%
Total	Count	151	498
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	23.3%	76.7%
	% within internet	100.0%	100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * internet Crosstabulation

		Total
Binary logistic outcome: 1 = Below cutoff / not pass G3 >= 10, 0 = G3 < 10	Count	100
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within internet	15.4%
	Count	549
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within internet	84.6%
Total	Count	649
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
	% within internet	100.0%

Binary Logistic Regression Model

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Logistic Regression

Case Processing Summary

Unweighted Cases ^a		N	Percent
Selected Cases	Included in Analysis	649	100.0
	Missing Cases	0	.0
	Total	649	100.0
Unselected Cases		0	.0
Total		649	100.0

a. If weight is in effect, see classification table for the total number of cases.

Dependent Variable Encoding

Original Value	Internal Value
Below cutoff / not pass	0
At or above cutoff / pass	1

Categorical Variables Codings

	Frequency	Parameter coding (1)
School dummy: 1 = MS, 0 = GP	423	1.000
	226	.000

Block 0: Beginning Block

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Classification Table^{a,b}

			Predicted	
			Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	
	Observed		Below cutoff / not pass	At or above cutoff / pass
Step 0	Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	0	100
		At or above cutoff / pass	0	549
		Overall Percentage		

Classification Table^{a,b}

			Predicted
Observed			Percentage Correct
Step 0	Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	.0
		At or above cutoff / pass	100.0
	Overall Percentage		84.6

a. Constant is included in the model.

b. The cut value is .500

Variables in the Equation

		B	S.E.	Wald	df	Sig.	Exp(B)
Step 0	Constant	1.703	.109	245.313	1	.000	5.490

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Variables not in the Equation

			Score	df	Sig.
Step 0	Variables	First period grade	205.764	1	.000
		Second period grade	227.644	1	.000
		Weekly study time group	17.693	1	.000
		Number of past class failures	93.833	1	.000
		School absences	4.967	1	.026
		Student age	7.956	1	.005
		Mother education	13.608	1	.000
		Father education	13.881	1	.000
		Travel time to school	2.173	1	.140
		Current health status	.065	1	.799
		School dummy: 1 = MS, 0 = GP(1)	57.331	1	.000
		Sex dummy: 1 = male, 0 = female	3.971	1	.046
		Address dummy: 1 = urban, 0 = rural	10.412	1	.001
		Family size dummy: 1 = LE3, 0 = GT3	1.769	1	.183
		Parent cohabitation dummy: 1 = together	.012	1	.914
		Higher education intention dummy: yes	62.251	1	.000
		Internet access dummy: yes	5.050	1	.025
		School support dummy: yes	.774	1	.379
		Family support dummy: yes	.932	1	.334
		Activities dummy: yes	1.451	1	.228
Overall Statistics			274.154	20	.000

Block 1: Method = Enter

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Omnibus Tests of Model Coefficients

		Chi-square	df	Sig.
Step 1	Step	389.807	20	.000
	Block	389.807	20	.000
	Model	389.807	20	.000

Model Summary

Step	-2 Log likelihood	Cox & Snell R Square	Nagelkerke R Square
1	167.978 ^a	.452	.783

a. Estimation terminated at iteration number 9 because parameter estimates changed by less than .001.

Hosmer and Lemeshow Test

Step	Chi-square	df	Sig.
1	18.628	8	.017

Contingency Table for Hosmer and Lemeshow Test

		Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 = Below cutoff / not pass		Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 = At or above cutoff / pass		Total
		Observed	Expected	Observed	Expected	
Step 1	1	61	60.842	4	4.158	65
	2	31	30.431	34	34.569	65
	3	7	7.137	58	57.863	65
	4	0	1.231	65	63.769	65
	5	0	.294	65	64.706	65
	6	1	.053	64	64.947	65
	7	0	.010	65	64.990	65
	8	0	.001	65	64.999	65
	9	0	.000	65	65.000	65
	10	0	.000	64	64.000	64

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Classification Table^a

Observed		Predicted	
		Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	
		Below cutoff / not pass	At or above cutoff / pass
Step 1	Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	77
		At or above cutoff / pass	23
	Overall Percentage	14	535

Classification Table^a

Observed		Predicted
		Percentage Correct
Step 1	Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass
		77.0
	At or above cutoff / pass	97.4
Overall Percentage		94.3

a. The cut value is .500

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Variables in the Equation

		B	S.E.	Wald	df	Sig.
Step 1 ^a	First period grade	.697	.157	19.633	1	.000
	Second period grade	1.527	.236	41.760	1	.000
	Weekly study time group	.022	.289	.006	1	.940
	Number of past class failures	-.339	.267	1.609	1	.205
	School absences	-.045	.046	.938	1	.333
	Student age	.585	.201	8.458	1	.004
	Mother education	.128	.244	.274	1	.601
	Father education	-.117	.244	.230	1	.631
	Travel time to school	.291	.266	1.191	1	.275
	Current health status	-.210	.158	1.763	1	.184
	School dummy: 1 = MS, 0 = GP(1)	1.132	.497	5.182	1	.023
	Sex dummy: 1 = male, 0 = female	-.639	.470	1.848	1	.174
	Address dummy: 1 = urban, 0 = rural	.071	.452	.025	1	.875
	Family size dummy: 1 = LE3, 0 = GT3	.217	.487	.198	1	.656
	Parent cohabitation dummy: 1 = together	-.128	.754	.029	1	.865
	Higher education intention dummy: yes	.880	.523	2.836	1	.092
	Internet access dummy: yes	-.409	.502	.666	1	.414
	School support dummy: yes	.291	.670	.189	1	.664
	Family support dummy: yes	.136	.440	.096	1	.757
	Activities dummy: yes	.190	.427	.198	1	.656
	Constant	-29.527	4.975	35.220	1	.000

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10

Variables in the Equation

		Exp(B)	95% C.I. for EXP(B)	
			Lower	Upper
Step 1 ^a	First period grade	2.007	1.475	2.731
	Second period grade	4.604	2.898	7.317
	Weekly study time group	1.022	.580	1.801
	Number of past class failures	.713	.422	1.203
	School absences	.956	.873	1.047
	Student age	1.796	1.210	2.664
	Mother education	1.136	.704	1.832
	Father education	.889	.551	1.435
	Travel time to school	1.337	.794	2.254
	Current health status	.811	.595	1.105
	School dummy: 1 = MS, 0 = GP(1)	3.101	1.170	8.217
	Sex dummy: 1 = male, 0 = female	.528	.210	1.326
	Address dummy: 1 = urban, 0 = rural	1.074	.443	2.605
	Family size dummy: 1 = LE3, 0 = GT3	1.242	.478	3.230
	Parent cohabitation dummy: 1 = together	.880	.201	3.856
	Higher education intention dummy: yes	2.412	.866	6.719
	Internet access dummy: yes	.664	.248	1.775
	School support dummy: yes	1.338	.360	4.974
	Family support dummy: yes	1.146	.484	2.713
	Activities dummy: yes	1.209	.524	2.790
	Constant	.000		

Binary Logistic Regression Model Outcome: logit_pass where 1 = G3 >= 10

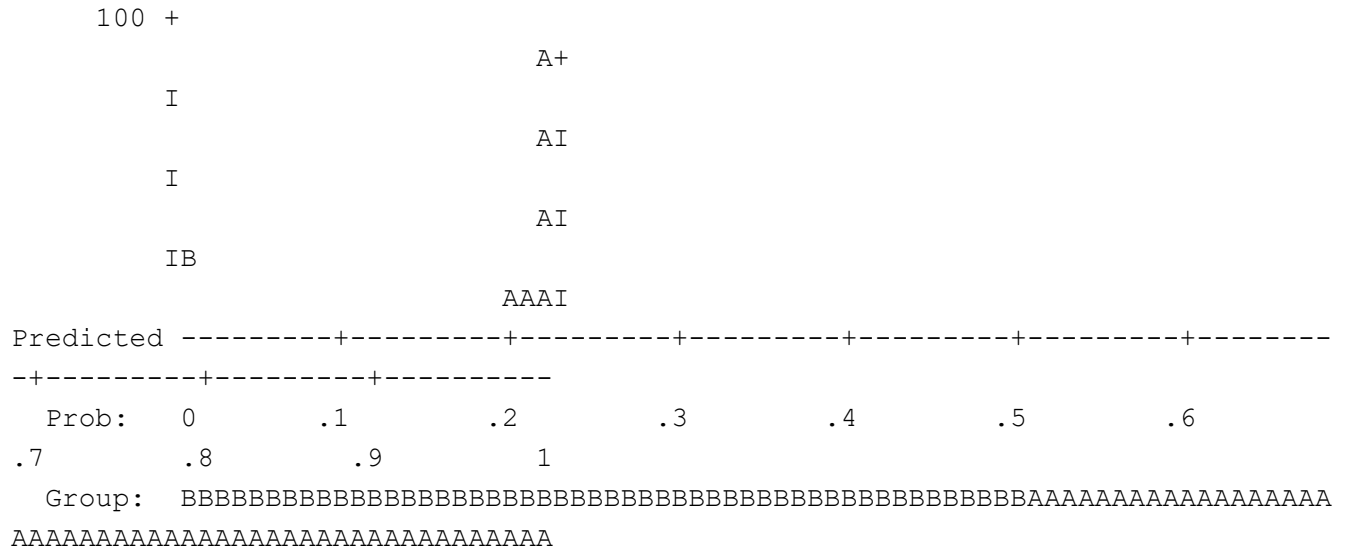
- a. Variable(s) entered on step 1: First period grade, Second period grade, Weekly study time group, Number of past class failures, School absences, Student age, Mother education, Father education, Travel time to school, Current health status, School dummy: 1 = MS, 0 = GP, Sex dummy: 1 = male, 0 = female, Address dummy: 1 = urban, 0 = rural, Family size dummy: 1 = LE3, 0 = GT3, Parent cohabitation dummy: 1 = together, Higher education intention dummy: yes, Internet access dummy: yes, School support dummy: yes, Family support dummy: yes, Activities dummy: yes.

Step number: 1

Observed Groups and Predicted Probabilities

	400 +		A+
	I		AI
	I		AI
F	I		AI
			AI
R	300 +		A+
E	I		AI
Q	I		AI
U	I		AI
			AI
E	200 +		A+
N	I		AI
			AI
C	I		AI
			AI
Y	I		AI

Binary Logistic Regression Model
Outcome: logit_pass where 1 = G3 >= 10



Predicted Probability is of Membership for At or above cutoff / pass
The Cut Value is .50
Symbols: B - Below cutoff / not pass
 A - At or above cutoff / pass
Each Symbol Represents 25 Cases.

Logistic Regression Classification Diagnostics

Frequencies

Statistics				
		Predicted probability	Predicted group	Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
N	Valid	649	649	649
	Missing	0	0	0

Frequency Table

Predicted probability					
		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	.00000	1	.2	.2	.2
	.00000	1	.2	.2	.3
	.00000	1	.2	.2	.5
	.00000	1	.2	.2	.6
	.00000	1	.2	.2	.8
	.00000	1	.2	.2	.9
	.00001	1	.2	.2	1.1
	.00026	1	.2	.2	1.2
	.00045	1	.2	.2	1.4
	.00049	1	.2	.2	1.5
	.00171	1	.2	.2	1.7
	.00221	1	.2	.2	1.8
	.00225	1	.2	.2	2.0
	.00255	1	.2	.2	2.2
	.00275	1	.2	.2	2.3
	.00404	1	.2	.2	2.5
	.00583	1	.2	.2	2.6
	.00653	1	.2	.2	2.8
	.00677	1	.2	.2	2.9
	.01148	1	.2	.2	3.1
	.01219	1	.2	.2	3.2
	.01314	1	.2	.2	3.4

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.01785	1	.2	.2	3.5
.01912	1	.2	.2	3.7
.02103	1	.2	.2	3.9
.02178	1	.2	.2	4.0
.02338	1	.2	.2	4.2
.02444	1	.2	.2	4.3
.02499	1	.2	.2	4.5
.02860	1	.2	.2	4.6
.02967	1	.2	.2	4.8
.03222	1	.2	.2	4.9
.03255	1	.2	.2	5.1
.03331	1	.2	.2	5.2
.03461	1	.2	.2	5.4
.04056	1	.2	.2	5.5
.04620	1	.2	.2	5.7
.05062	1	.2	.2	5.9
.05196	1	.2	.2	6.0
.05702	1	.2	.2	6.2
.07101	1	.2	.2	6.3
.07377	1	.2	.2	6.5
.08072	1	.2	.2	6.6
.08239	1	.2	.2	6.8
.08811	1	.2	.2	6.9
.09012	1	.2	.2	7.1
.09481	1	.2	.2	7.2
.09544	1	.2	.2	7.4
.10562	1	.2	.2	7.6
.10731	1	.2	.2	7.7
.12992	1	.2	.2	7.9
.13138	1	.2	.2	8.0
.13933	1	.2	.2	8.2
.14393	1	.2	.2	8.3
.14426	1	.2	.2	8.5

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.15821	1	.2	.2	8.6
.15992	1	.2	.2	8.8
.17471	1	.2	.2	8.9
.18103	1	.2	.2	9.1
.19755	1	.2	.2	9.2
.20115	1	.2	.2	9.4
.20257	1	.2	.2	9.6
.20629	1	.2	.2	9.7
.20905	1	.2	.2	9.9
.22670	1	.2	.2	10.0
.22856	1	.2	.2	10.2
.23233	1	.2	.2	10.3
.24925	1	.2	.2	10.5
.27430	1	.2	.2	10.6
.27818	1	.2	.2	10.8
.27910	1	.2	.2	10.9
.28078	1	.2	.2	11.1
.28112	1	.2	.2	11.2
.29108	1	.2	.2	11.4
.29957	1	.2	.2	11.6
.30121	1	.2	.2	11.7
.32761	1	.2	.2	11.9
.33937	1	.2	.2	12.0
.35292	1	.2	.2	12.2
.35653	1	.2	.2	12.3
.37163	1	.2	.2	12.5
.38944	1	.2	.2	12.6
.39298	1	.2	.2	12.8
.41119	1	.2	.2	12.9
.41299	1	.2	.2	13.1
.41931	1	.2	.2	13.3
.45241	1	.2	.2	13.4
.46830	1	.2	.2	13.6

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.47065	1	.2	.2	13.7
.49349	1	.2	.2	13.9
.49832	1	.2	.2	14.0
.50083	1	.2	.2	14.2
.50621	1	.2	.2	14.3
.50955	1	.2	.2	14.5
.51059	1	.2	.2	14.6
.52152	1	.2	.2	14.8
.54363	1	.2	.2	14.9
.55721	1	.2	.2	15.1
.56959	1	.2	.2	15.3
.57717	1	.2	.2	15.4
.58611	1	.2	.2	15.6
.58646	1	.2	.2	15.7
.61573	1	.2	.2	15.9
.62203	1	.2	.2	16.0
.62219	1	.2	.2	16.2
.63629	1	.2	.2	16.3
.64513	1	.2	.2	16.5
.64711	1	.2	.2	16.6
.64918	1	.2	.2	16.8
.65666	1	.2	.2	16.9
.65944	1	.2	.2	17.1
.66082	1	.2	.2	17.3
.66457	1	.2	.2	17.4
.66923	1	.2	.2	17.6
.67471	1	.2	.2	17.7
.67496	1	.2	.2	17.9
.68496	1	.2	.2	18.0
.68804	1	.2	.2	18.2
.68983	1	.2	.2	18.3
.71490	1	.2	.2	18.5
.72162	1	.2	.2	18.6

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.73268	1	.2	.2	18.8
.74857	1	.2	.2	19.0
.75367	1	.2	.2	19.1
.75687	1	.2	.2	19.3
.75885	1	.2	.2	19.4
.76793	1	.2	.2	19.6
.77164	1	.2	.2	19.7
.77830	1	.2	.2	19.9
.78119	1	.2	.2	20.0
.78703	1	.2	.2	20.2
.78990	1	.2	.2	20.3
.79498	1	.2	.2	20.5
.79502	1	.2	.2	20.6
.79785	1	.2	.2	20.8
.80808	1	.2	.2	21.0
.81129	1	.2	.2	21.1
.81206	1	.2	.2	21.3
.82740	1	.2	.2	21.4
.83049	1	.2	.2	21.6
.83987	1	.2	.2	21.7
.84175	1	.2	.2	21.9
.84369	1	.2	.2	22.0
.84946	1	.2	.2	22.2
.85175	1	.2	.2	22.3
.85334	1	.2	.2	22.5
.85490	1	.2	.2	22.7
.85985	1	.2	.2	22.8
.86127	1	.2	.2	23.0
.86560	1	.2	.2	23.1
.86660	1	.2	.2	23.3
.86668	1	.2	.2	23.4
.86788	1	.2	.2	23.6
.86861	1	.2	.2	23.7

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.86909	1	.2	.2	23.9
.87397	1	.2	.2	24.0
.87872	1	.2	.2	24.2
.88319	1	.2	.2	24.3
.88770	1	.2	.2	24.5
.89038	1	.2	.2	24.7
.89151	1	.2	.2	24.8
.89200	1	.2	.2	25.0
.89233	1	.2	.2	25.1
.89516	1	.2	.2	25.3
.90249	1	.2	.2	25.4
.90370	1	.2	.2	25.6
.90457	1	.2	.2	25.7
.90648	1	.2	.2	25.9
.91684	1	.2	.2	26.0
.91716	1	.2	.2	26.2
.91939	1	.2	.2	26.3
.92192	1	.2	.2	26.5
.92220	1	.2	.2	26.7
.92258	1	.2	.2	26.8
.92361	1	.2	.2	27.0
.92459	1	.2	.2	27.1
.92508	1	.2	.2	27.3
.92882	1	.2	.2	27.4
.93120	1	.2	.2	27.6
.93327	1	.2	.2	27.7
.93371	1	.2	.2	27.9
.94173	1	.2	.2	28.0
.94427	1	.2	.2	28.2
.94455	1	.2	.2	28.4
.94698	1	.2	.2	28.5
.94969	1	.2	.2	28.7
.95149	1	.2	.2	28.8

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.95182	1	.2	.2	29.0
.95237	1	.2	.2	29.1
.95366	1	.2	.2	29.3
.95392	1	.2	.2	29.4
.95483	1	.2	.2	29.6
.95890	1	.2	.2	29.7
.96018	1	.2	.2	29.9
.96129	1	.2	.2	30.0
.96130	1	.2	.2	30.2
.96134	1	.2	.2	30.4
.96160	1	.2	.2	30.5
.96181	1	.2	.2	30.7
.96562	1	.2	.2	30.8
.96599	1	.2	.2	31.0
.96724	1	.2	.2	31.1
.96959	1	.2	.2	31.3
.97116	1	.2	.2	31.4
.97127	1	.2	.2	31.6
.97227	1	.2	.2	31.7
.97290	1	.2	.2	31.9
.97291	1	.2	.2	32.0
.97354	1	.2	.2	32.2
.97376	1	.2	.2	32.4
.97445	1	.2	.2	32.5
.97556	1	.2	.2	32.7
.97617	1	.2	.2	32.8
.97693	1	.2	.2	33.0
.97752	1	.2	.2	33.1
.97795	1	.2	.2	33.3
.97827	1	.2	.2	33.4
.97873	1	.2	.2	33.6
.97937	1	.2	.2	33.7
.97967	1	.2	.2	33.9

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.98005	1	.2	.2	34.1
.98027	1	.2	.2	34.2
.98066	1	.2	.2	34.4
.98161	1	.2	.2	34.5
.98217	1	.2	.2	34.7
.98218	1	.2	.2	34.8
.98257	1	.2	.2	35.0
.98279	1	.2	.2	35.1
.98306	1	.2	.2	35.3
.98306	1	.2	.2	35.4
.98386	1	.2	.2	35.6
.98387	1	.2	.2	35.7
.98430	1	.2	.2	35.9
.98550	1	.2	.2	36.1
.98589	1	.2	.2	36.2
.98658	1	.2	.2	36.4
.98674	1	.2	.2	36.5
.98675	1	.2	.2	36.7
.98766	1	.2	.2	36.8
.98774	1	.2	.2	37.0
.98806	1	.2	.2	37.1
.98848	1	.2	.2	37.3
.98850	1	.2	.2	37.4
.98872	1	.2	.2	37.6
.98881	1	.2	.2	37.8
.98907	1	.2	.2	37.9
.98925	1	.2	.2	38.1
.98959	1	.2	.2	38.2
.98967	1	.2	.2	38.4
.98985	1	.2	.2	38.5
.98986	1	.2	.2	38.7
.98987	1	.2	.2	38.8
.98992	1	.2	.2	39.0

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99008	1	.2	.2	39.1
.99027	1	.2	.2	39.3
.99033	1	.2	.2	39.4
.99040	1	.2	.2	39.6
.99044	1	.2	.2	39.8
.99155	1	.2	.2	39.9
.99157	1	.2	.2	40.1
.99174	1	.2	.2	40.2
.99181	1	.2	.2	40.4
.99197	1	.2	.2	40.5
.99198	1	.2	.2	40.7
.99199	1	.2	.2	40.8
.99202	1	.2	.2	41.0
.99219	1	.2	.2	41.1
.99239	1	.2	.2	41.3
.99271	1	.2	.2	41.4
.99283	1	.2	.2	41.6
.99329	1	.2	.2	41.8
.99334	1	.2	.2	41.9
.99347	1	.2	.2	42.1
.99366	1	.2	.2	42.2
.99376	1	.2	.2	42.4
.99400	1	.2	.2	42.5
.99403	1	.2	.2	42.7
.99455	1	.2	.2	42.8
.99465	1	.2	.2	43.0
.99470	1	.2	.2	43.1
.99473	1	.2	.2	43.3
.99482	1	.2	.2	43.5
.99489	1	.2	.2	43.6
.99494	1	.2	.2	43.8
.99501	1	.2	.2	43.9
.99513	1	.2	.2	44.1

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99520	1	.2	.2	44.2
.99522	1	.2	.2	44.4
.99538	1	.2	.2	44.5
.99547	1	.2	.2	44.7
.99557	1	.2	.2	44.8
.99557	1	.2	.2	45.0
.99562	1	.2	.2	45.1
.99570	1	.2	.2	45.3
.99605	1	.2	.2	45.5
.99617	1	.2	.2	45.6
.99627	1	.2	.2	45.8
.99631	1	.2	.2	45.9
.99655	1	.2	.2	46.1
.99658	1	.2	.2	46.2
.99661	1	.2	.2	46.4
.99664	1	.2	.2	46.5
.99681	1	.2	.2	46.7
.99686	1	.2	.2	46.8
.99689	1	.2	.2	47.0
.99692	1	.2	.2	47.1
.99697	1	.2	.2	47.3
.99699	1	.2	.2	47.5
.99712	1	.2	.2	47.6
.99721	1	.2	.2	47.8
.99728	1	.2	.2	47.9
.99732	1	.2	.2	48.1
.99736	1	.2	.2	48.2
.99750	1	.2	.2	48.4
.99755	1	.2	.2	48.5
.99758	1	.2	.2	48.7
.99759	1	.2	.2	48.8
.99760	1	.2	.2	49.0
.99764	1	.2	.2	49.2

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99770	1	.2	.2	49.3
.99789	1	.2	.2	49.5
.99793	1	.2	.2	49.6
.99793	1	.2	.2	49.8
.99800	1	.2	.2	49.9
.99803	1	.2	.2	50.1
.99808	1	.2	.2	50.2
.99811	1	.2	.2	50.4
.99829	1	.2	.2	50.5
.99832	1	.2	.2	50.7
.99840	1	.2	.2	50.8
.99844	1	.2	.2	51.0
.99845	1	.2	.2	51.2
.99846	1	.2	.2	51.3
.99854	1	.2	.2	51.5
.99870	1	.2	.2	51.6
.99871	1	.2	.2	51.8
.99872	1	.2	.2	51.9
.99874	1	.2	.2	52.1
.99880	1	.2	.2	52.2
.99884	1	.2	.2	52.4
.99885	1	.2	.2	52.5
.99887	1	.2	.2	52.7
.99888	1	.2	.2	52.9
.99894	1	.2	.2	53.0
.99900	1	.2	.2	53.2
.99901	1	.2	.2	53.3
.99901	1	.2	.2	53.5
.99908	1	.2	.2	53.6
.99912	1	.2	.2	53.8
.99916	1	.2	.2	53.9
.99920	1	.2	.2	54.1
.99921	1	.2	.2	54.2

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99922	1	.2	.2	54.4
.99923	1	.2	.2	54.5
.99923	1	.2	.2	54.7
.99927	1	.2	.2	54.9
.99929	1	.2	.2	55.0
.99930	1	.2	.2	55.2
.99933	1	.2	.2	55.3
.99934	1	.2	.2	55.5
.99935	1	.2	.2	55.6
.99943	1	.2	.2	55.8
.99944	1	.2	.2	55.9
.99945	1	.2	.2	56.1
.99946	1	.2	.2	56.2
.99948	1	.2	.2	56.4
.99951	1	.2	.2	56.5
.99951	1	.2	.2	56.7
.99953	1	.2	.2	56.9
.99953	1	.2	.2	57.0
.99953	1	.2	.2	57.2
.99953	1	.2	.2	57.3
.99955	1	.2	.2	57.5
.99956	1	.2	.2	57.6
.99957	1	.2	.2	57.8
.99961	1	.2	.2	57.9
.99963	1	.2	.2	58.1
.99963	1	.2	.2	58.2
.99963	1	.2	.2	58.4
.99963	1	.2	.2	58.6
.99964	1	.2	.2	58.7
.99965	1	.2	.2	58.9
.99965	1	.2	.2	59.0
.99965	1	.2	.2	59.2
.99966	1	.2	.2	59.3

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99966	1	.2	.2	59.5
.99967	1	.2	.2	59.6
.99967	1	.2	.2	59.8
.99968	1	.2	.2	59.9
.99968	1	.2	.2	60.1
.99969	1	.2	.2	60.2
.99969	1	.2	.2	60.4
.99971	1	.2	.2	60.6
.99972	1	.2	.2	60.7
.99972	1	.2	.2	60.9
.99973	1	.2	.2	61.0
.99974	1	.2	.2	61.2
.99974	1	.2	.2	61.3
.99975	1	.2	.2	61.5
.99976	1	.2	.2	61.6
.99976	1	.2	.2	61.8
.99977	1	.2	.2	61.9
.99978	1	.2	.2	62.1
.99978	1	.2	.2	62.2
.99978	1	.2	.2	62.4
.99978	1	.2	.2	62.6
.99979	1	.2	.2	62.7
.99980	1	.2	.2	62.9
.99981	1	.2	.2	63.0
.99982	1	.2	.2	63.2
.99982	1	.2	.2	63.3
.99983	1	.2	.2	63.5
.99983	1	.2	.2	63.6
.99983	1	.2	.2	63.8
.99983	1	.2	.2	63.9
.99983	1	.2	.2	64.1
.99983	1	.2	.2	64.3
.99984	1	.2	.2	64.4

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99984	1	.2	.2	64.6
.99984	1	.2	.2	64.7
.99984	1	.2	.2	64.9
.99986	1	.2	.2	65.0
.99986	1	.2	.2	65.2
.99986	1	.2	.2	65.3
.99987	1	.2	.2	65.5
.99987	1	.2	.2	65.6
.99987	1	.2	.2	65.8
.99988	1	.2	.2	65.9
.99988	1	.2	.2	66.1
.99990	1	.2	.2	66.3
.99990	1	.2	.2	66.4
.99991	1	.2	.2	66.6
.99991	1	.2	.2	66.7
.99991	1	.2	.2	66.9
.99991	1	.2	.2	67.0
.99992	1	.2	.2	67.2
.99993	1	.2	.2	67.3
.99993	1	.2	.2	67.5
.99993	1	.2	.2	67.6
.99994	1	.2	.2	67.8
.99994	1	.2	.2	68.0
.99994	1	.2	.2	68.1
.99994	1	.2	.2	68.3
.99994	1	.2	.2	68.4
.99994	1	.2	.2	68.6
.99994	1	.2	.2	68.7
.99994	1	.2	.2	68.9
.99994	1	.2	.2	69.0
.99994	1	.2	.2	69.2
.99995	1	.2	.2	69.3
.99995	1	.2	.2	69.5

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99995	1	.2	.2	69.6
.99995	1	.2	.2	69.8
.99995	1	.2	.2	70.0
.99996	1	.2	.2	70.1
.99996	1	.2	.2	70.3
.99996	1	.2	.2	70.4
.99996	1	.2	.2	70.6
.99996	1	.2	.2	70.7
.99996	1	.2	.2	70.9
.99996	1	.2	.2	71.0
.99996	1	.2	.2	71.2
.99996	1	.2	.2	71.3
.99996	1	.2	.2	71.5
.99997	1	.2	.2	71.6
.99997	1	.2	.2	71.8
.99997	1	.2	.2	72.0
.99997	1	.2	.2	72.1
.99997	1	.2	.2	72.3
.99997	1	.2	.2	72.4
.99997	1	.2	.2	72.6
.99997	1	.2	.2	72.7
.99997	1	.2	.2	72.9
.99997	1	.2	.2	73.0
.99997	1	.2	.2	73.2
.99997	1	.2	.2	73.3
.99997	1	.2	.2	73.5
.99997	1	.2	.2	73.7
.99998	1	.2	.2	73.8
.99998	1	.2	.2	74.0
.99998	1	.2	.2	74.1
.99998	1	.2	.2	74.3
.99998	1	.2	.2	74.4
.99998	1	.2	.2	74.6

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99998	1	.2	.2	74.7
.99998	1	.2	.2	74.9
.99998	1	.2	.2	75.0
.99998	1	.2	.2	75.2
.99998	1	.2	.2	75.3
.99998	1	.2	.2	75.5
.99998	1	.2	.2	75.7
.99998	1	.2	.2	75.8
.99998	1	.2	.2	76.0
.99998	1	.2	.2	76.1
.99998	1	.2	.2	76.3
.99998	1	.2	.2	76.4
.99998	1	.2	.2	76.6
.99998	1	.2	.2	76.7
.99998	1	.2	.2	76.9
.99999	1	.2	.2	77.0
.99999	1	.2	.2	77.2
.99999	1	.2	.2	77.3
.99999	1	.2	.2	77.5
.99999	1	.2	.2	77.7
.99999	1	.2	.2	77.8
.99999	1	.2	.2	78.0
.99999	1	.2	.2	78.1
.99999	1	.2	.2	78.3
.99999	1	.2	.2	78.4
.99999	1	.2	.2	78.6
.99999	1	.2	.2	78.7
.99999	1	.2	.2	78.9
.99999	1	.2	.2	79.0
.99999	1	.2	.2	79.2
.99999	1	.2	.2	79.4
.99999	1	.2	.2	79.5
.99999	1	.2	.2	79.7

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
.99999	1	.2	.2	79.8
.99999	1	.2	.2	80.0
.99999	1	.2	.2	80.1
.99999	1	.2	.2	80.3
.99999	1	.2	.2	80.4
.99999	1	.2	.2	80.6
.99999	1	.2	.2	80.7
1.00000	1	.2	.2	80.9
1.00000	1	.2	.2	81.0
1.00000	1	.2	.2	81.2
1.00000	1	.2	.2	81.4
1.00000	1	.2	.2	81.5
1.00000	1	.2	.2	81.7
1.00000	1	.2	.2	81.8
1.00000	1	.2	.2	82.0
1.00000	1	.2	.2	82.1
1.00000	1	.2	.2	82.3
1.00000	1	.2	.2	82.4
1.00000	1	.2	.2	82.6
1.00000	1	.2	.2	82.7
1.00000	1	.2	.2	82.9
1.00000	1	.2	.2	83.1
1.00000	1	.2	.2	83.2
1.00000	1	.2	.2	83.4
1.00000	1	.2	.2	83.5
1.00000	1	.2	.2	83.7
1.00000	1	.2	.2	83.8
1.00000	1	.2	.2	84.0
1.00000	1	.2	.2	84.1
1.00000	1	.2	.2	84.3
1.00000	1	.2	.2	84.4
1.00000	1	.2	.2	84.6
1.00000	1	.2	.2	84.7

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
1.00000	1	.2	.2	84.9
1.00000	1	.2	.2	85.1
1.00000	1	.2	.2	85.2
1.00000	1	.2	.2	85.4
1.00000	1	.2	.2	85.5
1.00000	1	.2	.2	85.7
1.00000	1	.2	.2	85.8
1.00000	1	.2	.2	86.0
1.00000	1	.2	.2	86.1
1.00000	1	.2	.2	86.3
1.00000	1	.2	.2	86.4
1.00000	1	.2	.2	86.6
1.00000	1	.2	.2	86.7
1.00000	1	.2	.2	86.9
1.00000	1	.2	.2	87.1
1.00000	1	.2	.2	87.2
1.00000	1	.2	.2	87.4
1.00000	1	.2	.2	87.5
1.00000	1	.2	.2	87.7
1.00000	1	.2	.2	87.8
1.00000	1	.2	.2	88.0
1.00000	1	.2	.2	88.1
1.00000	1	.2	.2	88.3
1.00000	1	.2	.2	88.4
1.00000	1	.2	.2	88.6
1.00000	1	.2	.2	88.8
1.00000	1	.2	.2	88.9
1.00000	1	.2	.2	89.1
1.00000	1	.2	.2	89.2
1.00000	1	.2	.2	89.4
1.00000	1	.2	.2	89.5
1.00000	1	.2	.2	89.7
1.00000	1	.2	.2	89.8

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
1.00000	1	.2	.2	90.0
1.00000	1	.2	.2	90.1
1.00000	1	.2	.2	90.3
1.00000	1	.2	.2	90.4
1.00000	1	.2	.2	90.6
1.00000	1	.2	.2	90.8
1.00000	1	.2	.2	90.9
1.00000	1	.2	.2	91.1
1.00000	1	.2	.2	91.2
1.00000	1	.2	.2	91.4
1.00000	1	.2	.2	91.5
1.00000	1	.2	.2	91.7
1.00000	1	.2	.2	91.8
1.00000	1	.2	.2	92.0
1.00000	1	.2	.2	92.1
1.00000	1	.2	.2	92.3
1.00000	1	.2	.2	92.4
1.00000	1	.2	.2	92.6
1.00000	1	.2	.2	92.8
1.00000	1	.2	.2	92.9
1.00000	1	.2	.2	93.1
1.00000	1	.2	.2	93.2
1.00000	1	.2	.2	93.4
1.00000	1	.2	.2	93.5
1.00000	1	.2	.2	93.7
1.00000	1	.2	.2	93.8
1.00000	1	.2	.2	94.0
1.00000	1	.2	.2	94.1
1.00000	1	.2	.2	94.3
1.00000	1	.2	.2	94.5
1.00000	1	.2	.2	94.6
1.00000	1	.2	.2	94.8
1.00000	1	.2	.2	94.9

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
1.00000	1	.2	.2	95.1
1.00000	1	.2	.2	95.2
1.00000	1	.2	.2	95.4
1.00000	1	.2	.2	95.5
1.00000	1	.2	.2	95.7
1.00000	1	.2	.2	95.8
1.00000	1	.2	.2	96.0
1.00000	1	.2	.2	96.1
1.00000	1	.2	.2	96.3
1.00000	1	.2	.2	96.5
1.00000	1	.2	.2	96.6
1.00000	1	.2	.2	96.8
1.00000	1	.2	.2	96.9
1.00000	1	.2	.2	97.1
1.00000	1	.2	.2	97.2
1.00000	1	.2	.2	97.4
1.00000	1	.2	.2	97.5
1.00000	1	.2	.2	97.7
1.00000	1	.2	.2	97.8
1.00000	1	.2	.2	98.0
1.00000	1	.2	.2	98.2
1.00000	1	.2	.2	98.3
1.00000	1	.2	.2	98.5
1.00000	1	.2	.2	98.6
1.00000	1	.2	.2	98.8
1.00000	1	.2	.2	98.9
1.00000	1	.2	.2	99.1
1.00000	1	.2	.2	99.2
1.00000	1	.2	.2	99.4
1.00000	1	.2	.2	99.5
1.00000	1	.2	.2	99.7
1.00000	1	.2	.2	99.8
1.00000	1	.2	.2	100.0

Logistic Regression Classification Diagnostics

Predicted probability

	Frequency	Percent	Valid Percent	Cumulative Percent
Total	649	100.0	100.0	

Predicted group

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Below cutoff / not pass	91	14.0	14.0	14.0
	At or above cutoff / pass	558	86.0	86.0	100.0
	Total	649	100.0	100.0	

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Below cutoff / not pass	100	15.4	15.4	15.4
	At or above cutoff / pass	549	84.6	84.6	100.0
	Total	649	100.0	100.0	

Crosstabs

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * Predicted group	649	100.0%	0	0.0%	649	100.0%

Logistic Regression Classification Diagnostics

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * Predicted group Crosstabulation

		Predicted group Below cutoff / not pass
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count
		77
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		77.0%
		% within Predicted group
		84.6%
	At or above cutoff / pass	Count
		14
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		2.6%
		% within Predicted group
		15.4%
Total		Count
		91
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		14.0%
		% within Predicted group
		100.0%

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * Predicted group Crosstabulation

		Predicted group At or above cutoff / pass
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count
		23
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		23.0%
		% within Predicted group
		4.1%
	At or above cutoff / pass	Count
		535
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		97.4%
		% within Predicted group
		95.9%
Total		Count
		558
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10
		86.0%
		% within Predicted group
		100.0%

Logistic Regression Classification Diagnostics

Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10 * Predicted group Crosstabulation

			Total
Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	Below cutoff / not pass	Count	100
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within Predicted group	15.4%
	At or above cutoff / pass	Count	549
		% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10	100.0%
		% within Predicted group	84.6%
Total	Count		649
	% within Binary logistic outcome: 1 = G3 >= 10, 0 = G3 < 10		100.0%
	% within Predicted group		100.0%

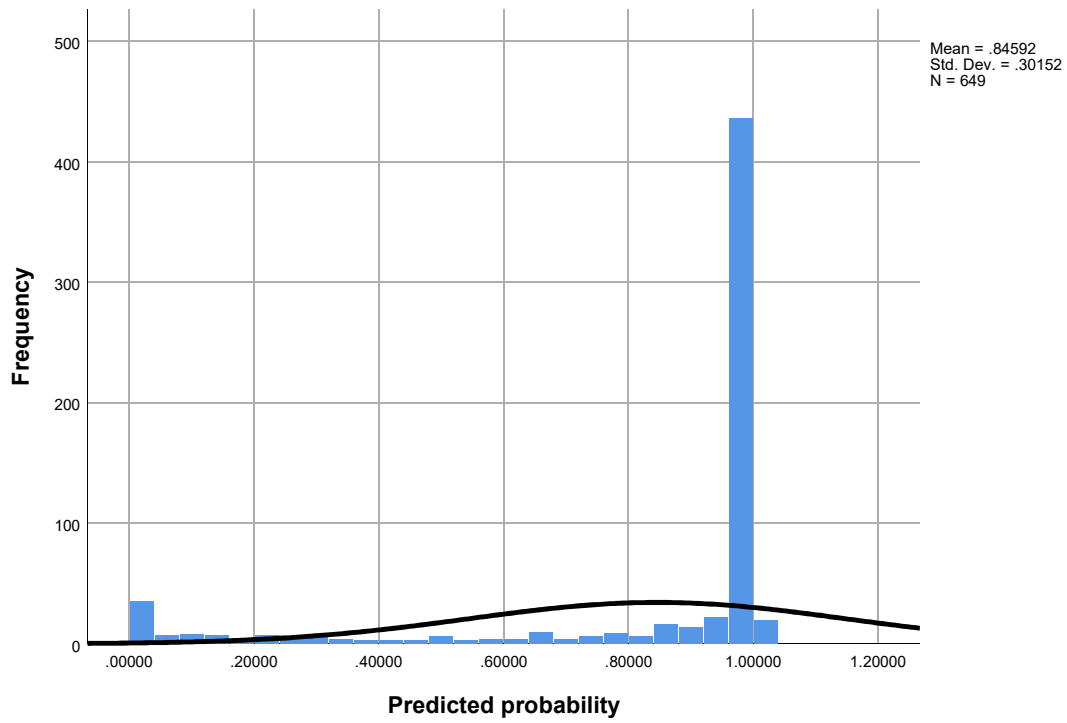
Descriptives

Descriptive Statistics

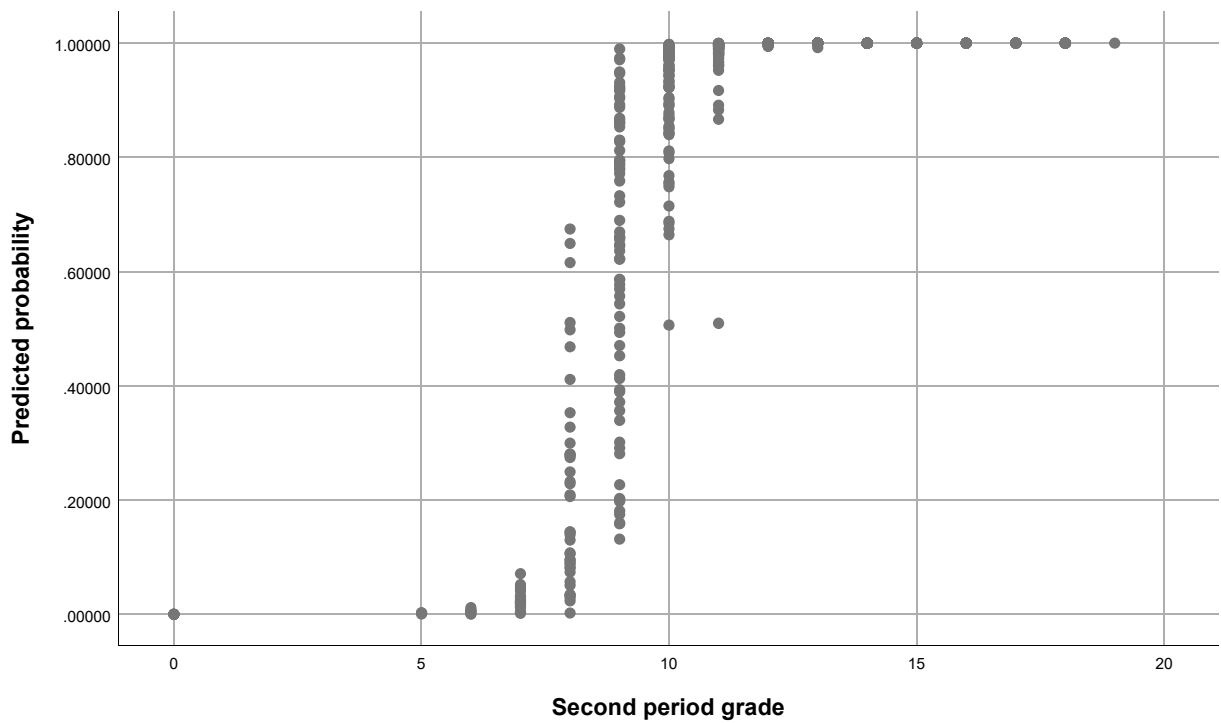
	N	Minimum	Maximum	Mean	Std. Deviation
Predicted probability	649	.00000	1.00000	.8459168	.30151599
Difference between observed and predicted probabilities	649	-.99934	.89269	.0000000	.19945628
Valid N (listwise)	649				

Graph

Logistic Regression Classification Diagnostics



Graph



Output Export

Warnings

The name EMBEDBOOKMARKS is not a recognized subcommand.

Execution of this command stops.

Logistic Regression SPSS Syntax Completed