

Nominal Logistic Fit for Retention_Risk

Converged in Gradient, 16 iterations

Whole Model Test

Model	-LogLikelihood	DF	ChiSquare	Prob>ChiSq
Difference	21.90751	7	43.81501	<.0001*
Full	179.80600			
Reduced	201.71351			

RSquare (U)	0.1086
AICc	376.121
BIC	405.026
Observations (or Sum Wgts)	292

Measure	Training	Definition
Entropy RSquare	0.1086	$1 - \text{Loglike}(\text{model}) / \text{Loglike}(0)$
Generalized RSquare	0.1861	$(1 - (L(0)/L(\text{model}))^{(2/n)}) / (1 - L(0)^{(2/n)})$
Mean -Log p	0.6158	$\sum -\text{Log}(\rho_{jj}) / n$
RMSE	0.4677	$\sqrt{\sum (y_{jj} - \rho_{jj})^2 / n}$
Mean Abs Dev	0.4342	$\sum y_{jj} - \rho_{jj} / n$
Misclassification Rate	0.4178	$\sum (\rho_{jj} \neq \rho_{\text{Max}}) / n$
N	292	n

Lack Of Fit

Source	DF	-LogLikelihood	ChiSquare	Prob>ChiSq
Lack Of Fit	268	179.80600	359.612	
Saturated	275	0.00000		
Fitted	7	179.80600		0.0002*

Parameter Estimates

Term	Estimate	Std Error	ChiSquare	Prob>ChiSq
Intercept	2.57799453	0.7213195	12.77	0.0004*
AvgDelta_AttPass_To	-0.2212462	0.0729658	9.19	0.0024*
AvgProGpa_To	-0.705042	0.1449475	23.66	<.0001*
Age	-0.0043322	0.0220499	0.04	0.8442
Race_Asian	-0.5420907	0.4415397	1.51	0.2195
Race_Black	-0.606464	0.3519748	2.97	0.0849
Race_Hispanic	-0.3397907	0.3328159	1.04	0.3073
Race_Indian	Unstable -18.577939	5439.527	0.00	0.9973

For log odds of 0/1

Effect Likelihood Ratio Tests

Source	Nparm	DF	L-R	
			ChiSquare	Prob>ChiSq
AvgDelta_AttPass_To	1	1	9.63071643	0.0019*
AvgProGpa_To	1	1	31.3378489	<.0001*
Age	1	1	0.03843522	0.8446
Race_Asian	1	1	1.53446521	0.2154
Race_Black	1	1	3.00697355	0.0829
Race_Hispanic	1	1	1.04567843	0.3065
Race_Indian	1	1	3.0811422	0.0792