Generalized Regression for Starbucks NPS

Model Comparison								
Show	Response Distribution	Estimation Method	Validation Method	Nonzero Parameters	AICc	BIC	Generalized RSquare	Validation Generalized RSquare
	Poisson	Maximum Likelihood	None	4	345.1616	353.92115	0.1991438	
	Poisson	Ridge	Holdback	4	234.30666	241.3545	0.1799586	0.1287178
	Poisson	Double Lasso	Holdback	4	233.47697	240.52481	0.154208	0.1801505
	Negative Binomial	Lasso	Holdback	4	232.35413	239.40197	0.2603	0.0211375
\checkmark	Negative Binomial	Double Lasso	Holdback	5	252.35868	260.93354	0.3690745	0.4969383
	Negative Binomial	Ridge	Holdback	5	253.65209	262.22696	0.2479057	0.2289289

Negative Binomial Double Lasso with Holdback Validation

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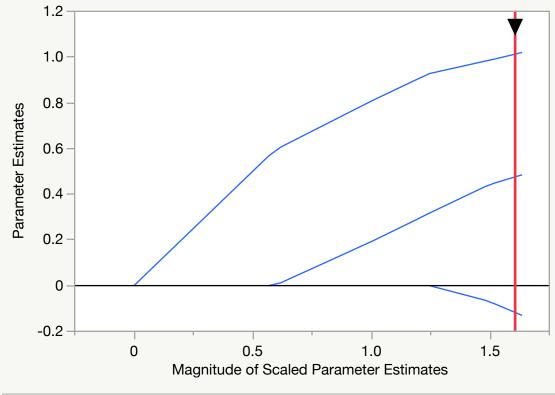
Response Starbucks NPS
Distribution Negative Binomial
Estimation Method Double Lasso
Validation Method Holdback
Mean Model Link Log
Dispersion Model Link Identity

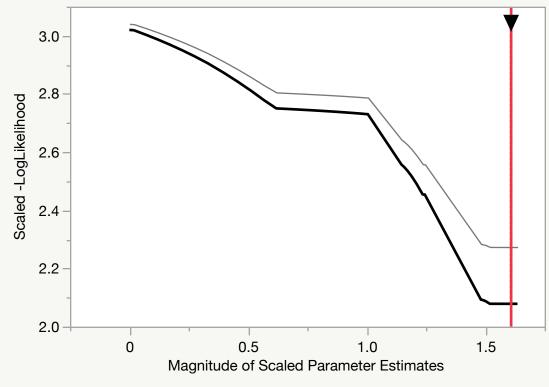
Dispersion Moder Link Identity				
Measure	Training	Validation		
Number of rows	53	23		
Sum of Frequencies	53	23		
-LogLikelihood	120.54104	47.806566		
Number of Parameters	5	5		
BIC	260.93354	111.2906		
AICc	252.35868	109.14254		
Generalized RSquare	0.3690745	0.4969383		
Lambda Penalty	0.0751697			

Estimation Details

Number of Grid Points 150
Minimum Penalty Fraction 0
Grid Scale Square Root

Solution Path





T	Legend
	Validation
	— Training
1	

Reset Solution

Parameter Estimates for Original Predictors

			Wald	Prob >		
Term	Estimate	Std Error	ChiSquare	ChiSquare	Lower 95%	Upper 95%
Intercept	1.8592587	0.1073499	299.96879	<.0001*	1.6488567	2.0696607
Factor1	0.1820595	0.078641	5.3595545	0.0206*	0.027926	0.336193
Factor2	-0.023266	0.067922	0.1173312	0.7319	-0.15639	0.1098589
Factor3	0.0871958	0.0671004	1.6886557	0.1938	-0.044319	0.2187101
Negative Binomial				Wald	Prob >	

Negative Binomial
Distribution ParametersEstimateStd ErrorChiSquareChiSquareLower 95%Upper 95%Dispersion0.00013350.00013350.0001335