Proc Model for Simple Linear Combinations

The MODEL Procedure

Model Summary	
Model Variables	1
Parameters	8
ID Variables	1
Equations	1
Number of Statements	5

Model Variables	P_NPS_Detract_Pass_ProPROMOTERS
Parameters	b0 b1 b2 b3 b4 b5 b6 b7
Equations	P_NPS_Detract_Pass_ProPROMOTERS

The Equation to Estimate is	
P_NPS_Detract_Pass_ProPROMOTERS =	F(b0(1), b1(avg_agent_tenure), b2(avg_customer_tenure), b3(avg_est_spend_num), b4(sum_category_1), b5(sum_category_2), b6(sum_category_3), b7(sum_category_4))

Observations will be weighted by	_FREQ_

Storage Requirements for this Problem	
Order of XPX Matrix	9
Order of Cross Matrix	9
Total Nonzero Derivatives	8
Distinct Variable Derivatives	7
Size of Cross matrix	9024

NOTE: At OLS Iteration 1 convergence assumed because OBJECTIVE=1.510176E-20 is almost zero (<1E-12).

Proc Model for Simple Linear Combinations

The MODEL Procedure
OLS Estimation Summary

Data Set Options	
DATA=	IMPORT_NEW2
OUT=	CASUSER.ECON_OUTPUT

Minimization Summary

Minimization Summary	
Parameters Estimated	8
Method	Gauss
Iterations	1

Final Convergence Criteria	
R	1
PPC	3.626E-9
RPC(b0)	2534.476
Object	1
Trace(S)	1.21E-19
Objective Value	1.51E-20

Observations Processed	
Read	8
Solved	8

Proc Model for Simple Linear Combinations

The MODEL Procedure

Nonlinear OLS Summary of Residual Errors

Equation	DF Model	DF Error	SSE	MSE	Root MSE	R-Square	Adj R-Sq
P_NPS_Detract_Pass_ProPROMOTERS	8	0	0	.	.	.	.

Nonlinear OLS Parameter Estimates

Parameter	Estimate	Approx Std Err	t Value	Approx Pr > |t|	Label
b0	-0.25588	0	.	.	Intercept
b1	0.001019	0	.	.	Avg_agent_tenure
b2	0.000237	0	.	.	Avg_customer_tenure
b3	-0.00026	0	.	.	Avg_est_spend_num
b4	-0.00015	0	.	.	sum_category_1
b5	-0.00015	0	.	.	sum_category_2
b6	0.000162	0	.	.	sum_category_3
b7	-0.00004	0	.	.	sum_category_4

Nonlinear OLS Estimates

Term	Estimate	Approx Std Err	t Value	Approx Pr > |t|	Label

Nonlinear OLS Estimates					
Term	**Estimate**	**Approx Std Err**	**t Value**	**Approx Pr > |t|**	**Label**
Safe/Easy-10%, Prob+10%	1.315512	0	.	.	b0 + b1*(597.42)*1.1 + b2*(1635.69)*1.1 + b3*(471.44)*0.9 + b4*(9643)*0.9 + b5*(7399)*0.9 + b6*(18006)*1.1 + b7*(10624)*0.9

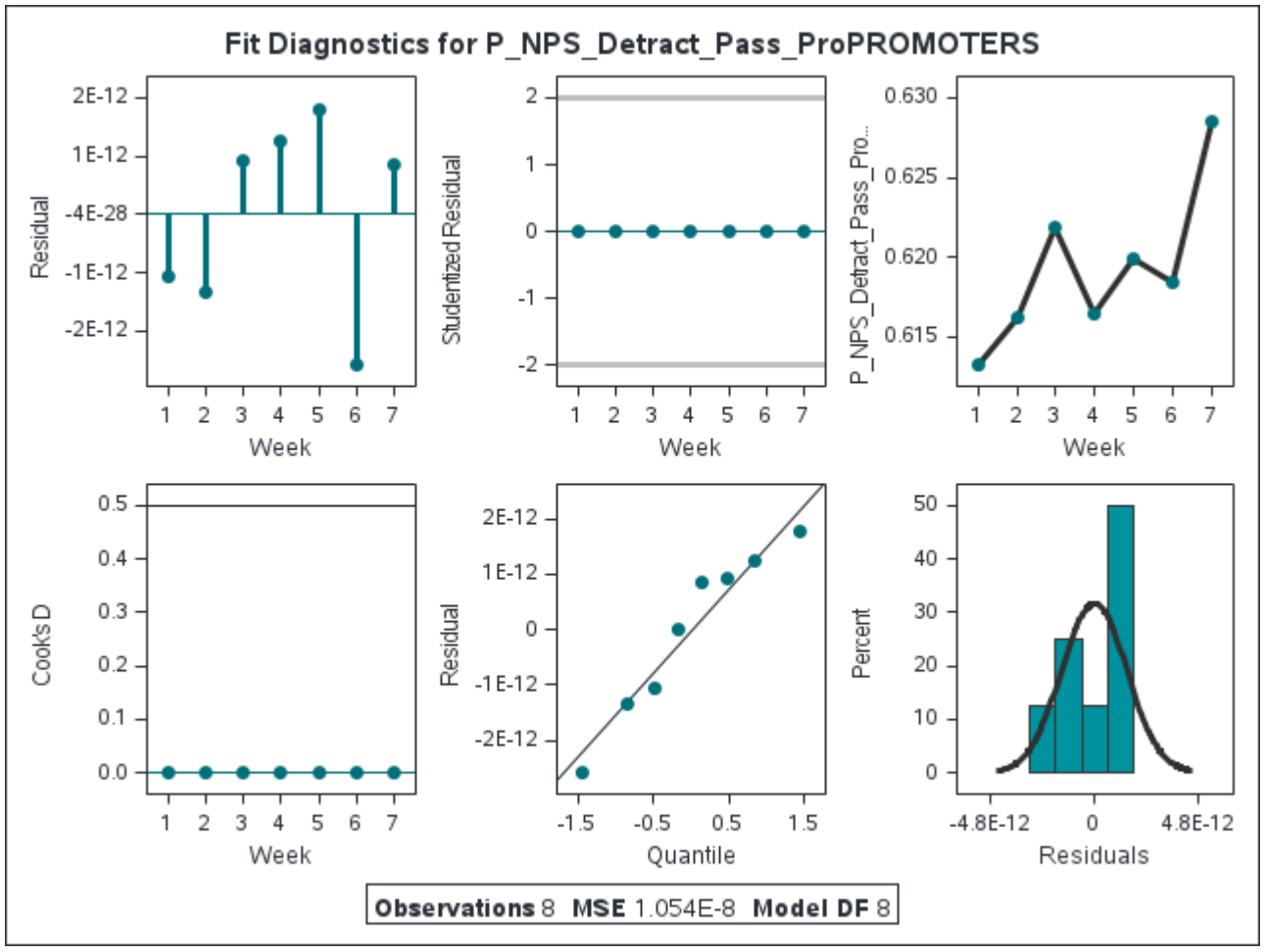
Nonlinear OLS Estimates					
Term	**Estimate**	**Approx Std Err**	**t Value**	**Approx Pr > |t|**	**Label**
Safe/Easy no change	0.619599	0	.	.	b0 + b1*(597.42) + b2*(1635.69) + b3*(471.44) + b4*(9643) + b5*(7399) + b6*(18006) + b7*(10624)

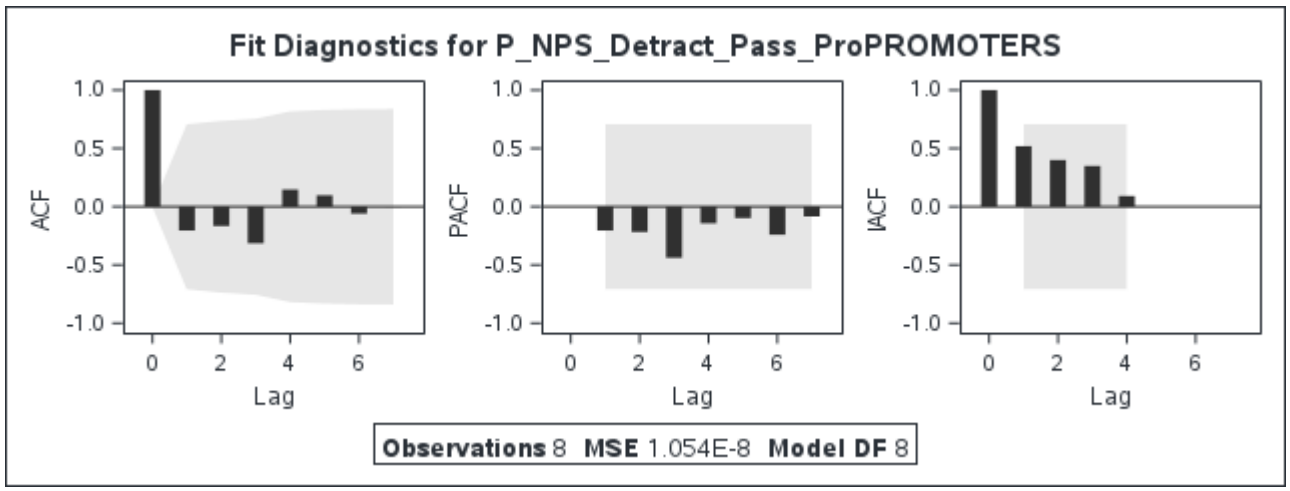
Number of Observations		Statistics for System	
Used	8	**Objective**	1.51E-20
Missing	0	**Objective*N**	1.208E-19
Sum of Weights	108956		

Heteroscedasticity Test					
Equation	**Test**	**Statistic**	**DF**	**Pr > ChiSq**	**Variables**
P_NPS_Detract_Pass_ProPROMOTERS	White's Test	8.00	7	0.3326	Cross of all vars
	Breusch-Pagan	.	0	.	1, income

Proc Model for Simple Linear Combinations

The MODEL Procedure


Fit Diagnostics for P_NPS_Detract_Pass_ProPROMOTERS
Residual
Week
Studentized Residual
P_NPS_Detract_Pass_Pro...
Cook's D
Quantile
Percent
Residuals
Observations 8 MSE 1.054E-8 Model DF 8


Fit Diagnostics for P_NPS_Detract_Pass_ProPROMOTERS
ACF
PACF
IACF
Lag
Observations 8 MSE 1.054E-8 Model DF 8