PLANILHA1

Factorial Regression: Max. Throughput versus Error Rate, learning_rate

Coded Coefficients

Term	Effect	Coef	SE Coef	T-Value	P-Value	VIF
Constant		84320	1256	67.12	0.000	
Error Rate	-1133	-567	1256	-0.45	0.653	1.00
learning_rate	907	453	1256	0.36	0.719	1.00
Error Rate*learning_rate	680	340	1256	0.27	0.787	1.00

Model Summary

S	R-sq	R-sq(adj)	R-sq(pred)
13762.2	0.35%	0.00%	0.00%

Analysis of Variance

Source	DF	Adj SS	Adj MS	F-Value	P-Value
Model	3	77066667	25688889	0.14	0.939
Linear	2	63194667	31597333	0.17	0.847
Error Rate	1	38533333	38533333	0.20	0.653
learning_rate	1	24661333	24661333	0.13	0.719
2-Way Interactions	1	13872000	13872000	0.07	0.787
Error Rate*learning_rate	1	13872000	13872000	0.07	0.787
Error	116	21970165333	189397977		
Total	119	22047232000			

Regression Equation in Uncoded Units

Max. Throughput = 84748 - 9822 Error Rate + 25185 learning_rate
+ 755556 Error Rate*learning_rate

Fits and Diagnostics for Unusual Observations

Obs	Max. Throughput	Fit	Resid	Std Resid	
11	115600	85000	30600	2.26	R
107	122400	82960	39440	2.91	R
113	122400	84773	37627	2.78	R
119	115600	84773	30827	2.28	R

R Large residual

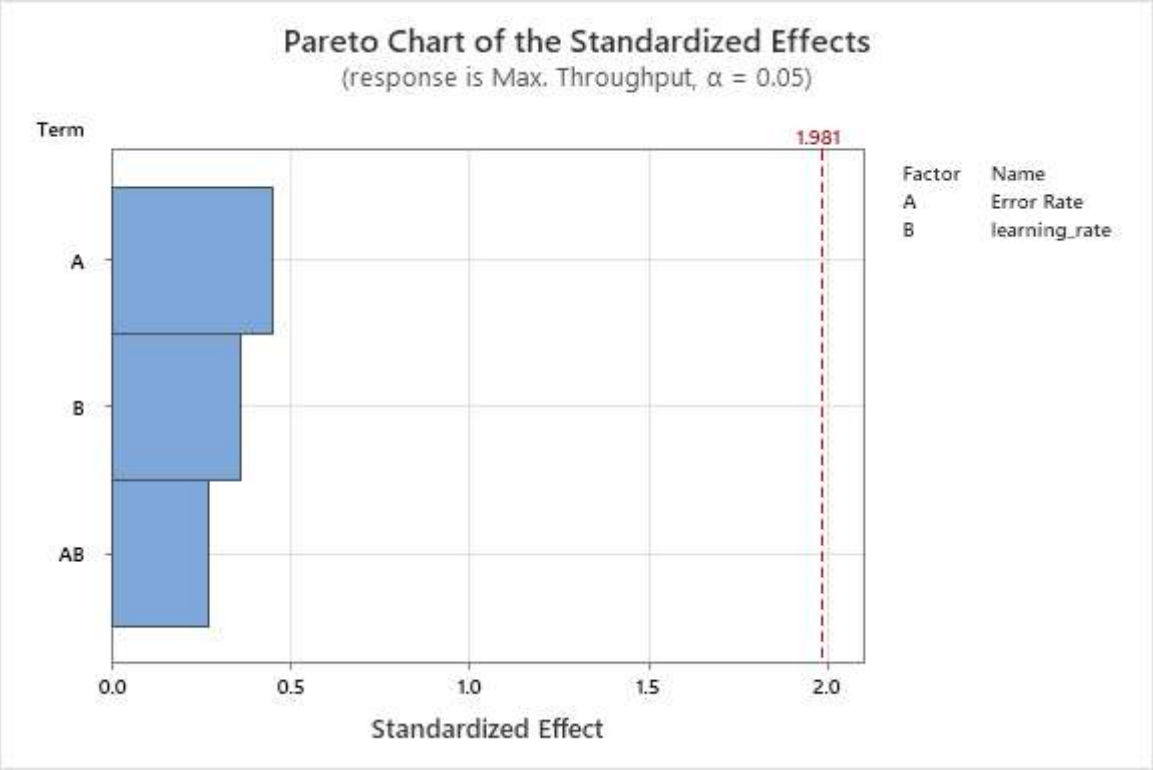
Alias Structure

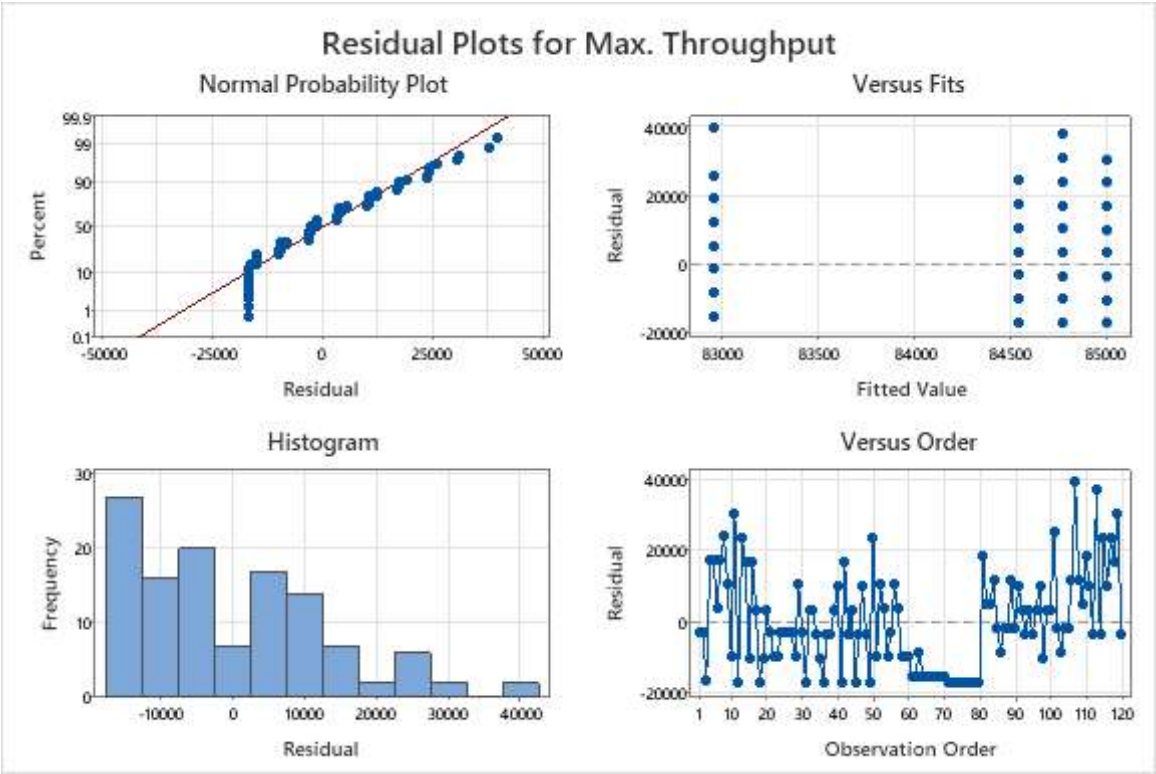
Factor	Name

A	Error Rate
B	learning_rate

Aliases

I
A
B
AB




Residual Plots for Max. Throughput
Normal Probability Plot
Percent
99.9
99
90
50
10
1
0.1
-50000
-25000
0
25000
50000
Residual
Versus Fits
Residual
40000
20000
0
-20000
83000
83500
84000
84500
85000
Fitted Value
Histogram
Frequency
30
20
10
0
-10000
0
10000
20000
30000
40000
Residual
Versus Order
Residual
40000
20000
0
-20000
1
10
20
30
40
50
60
70
80
90
100
110
120
Observation Order