

1. Adding x10, FStat = 35.9348, pValue = 7.15746e-09
2. Adding x3, FStat = 18.7039, pValue = 2.21683e-05

ans =

Linear regression model:

$$y \sim 1 + x3 + x10$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	0.033813	0.01547	2.1857	0.029778
x3	-0.53852	0.12452	-4.3248	2.2168e-05
x10	0.76176	0.10463	7.2803	4.4342e-12

Number of observations: 250, Error degrees of freedom: 247

Root Mean Squared Error: 0.208

R-squared: 0.188, Adjusted R-Squared 0.181

F-statistic vs. constant model: 28.6, p-value = 6.72e-12

1. Adding x9, FStat = 148.963, pValue = 3.813018e-27
2. Adding x6, FStat = 35.74, pValue = 7.84688e-09
3. Adding x16, FStat = 27.643, pValue = 3.16796e-07

ans =

Linear regression model:

$$y \sim 1 + x6 + x9 + x16$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.059704	0.021268	-2.8072	0.0053973
x6	0.3528	0.057196	6.1683	2.8173e-09
x9	0.53058	0.070875	7.4861	1.2624e-12
x16	0.45979	0.087451	5.2577	3.168e-07

Number of observations: 250, Error degrees of freedom: 246

Root Mean Squared Error: 0.217

R-squared: 0.509, Adjusted R-Squared 0.503

F-statistic vs. constant model: 85.1, p-value = 8.27e-38

1. Adding x9, FStat = 188.1784, pValue = 3.007557e-32
2. Adding x10, FStat = 40.9471, pValue = 7.79277e-10
3. Adding x16, FStat = 31.8695, pValue = 4.53155e-08
4. Adding x6, FStat = 22.7694, pValue = 3.14082e-06

ans =

Linear regression model:

$$y \sim 1 + x6 + x9 + x10 + x16$$

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.069829	0.022015	-3.1719	0.0017075
x6	0.3012	0.063121	4.7717	3.1408e-06
x9	0.60625	0.074885	8.0957	2.6721e-14
x10	0.39548	0.083717	4.724	3.8975e-06
x16	0.5302	0.090592	5.8526	1.5447e-08

Number of observations: 250, Error degrees of freedom: 245

Root Mean Squared Error: 0.225

R-squared: 0.605, Adjusted R-Squared 0.598

F-statistic vs. constant model: 93.8, p-value = 2.94e-48

1. Adding x9, FStat = 208.2751, pValue = 1.097535e-34

2. Adding x6, FStat = 39.6741, pValue = 1.36438e-09

3. Adding x16, FStat = 38.8523, pValue = 1.97226e-09

4. Adding x13, FStat = 20.058, pValue = 1.15266e-05

ans =

Linear regression model:

 $y \sim 1 + x6 + x9 + x13 + x16$ 

Estimated Coefficients:

	Estimate	SE	tStat	pValue
(Intercept)	-0.072006	0.022891	-3.1456	0.001862
x6	0.34853	0.062603	5.5673	6.7791e-08
x9	0.63535	0.079275	8.0146	4.5132e-14
x13	0.36704	0.081955	4.4786	1.1527e-05
x16	0.60602	0.092829	6.5284	3.7977e-10

Number of observations: 250, Error degrees of freedom: 245

Root Mean Squared Error: 0.23

R-squared: 0.626, Adjusted R-Squared 0.62

F-statistic vs. constant model: 103, p-value = 3.49e-51

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