2014 Life Expectancy Data EDA

Team Orange

2022-10-02

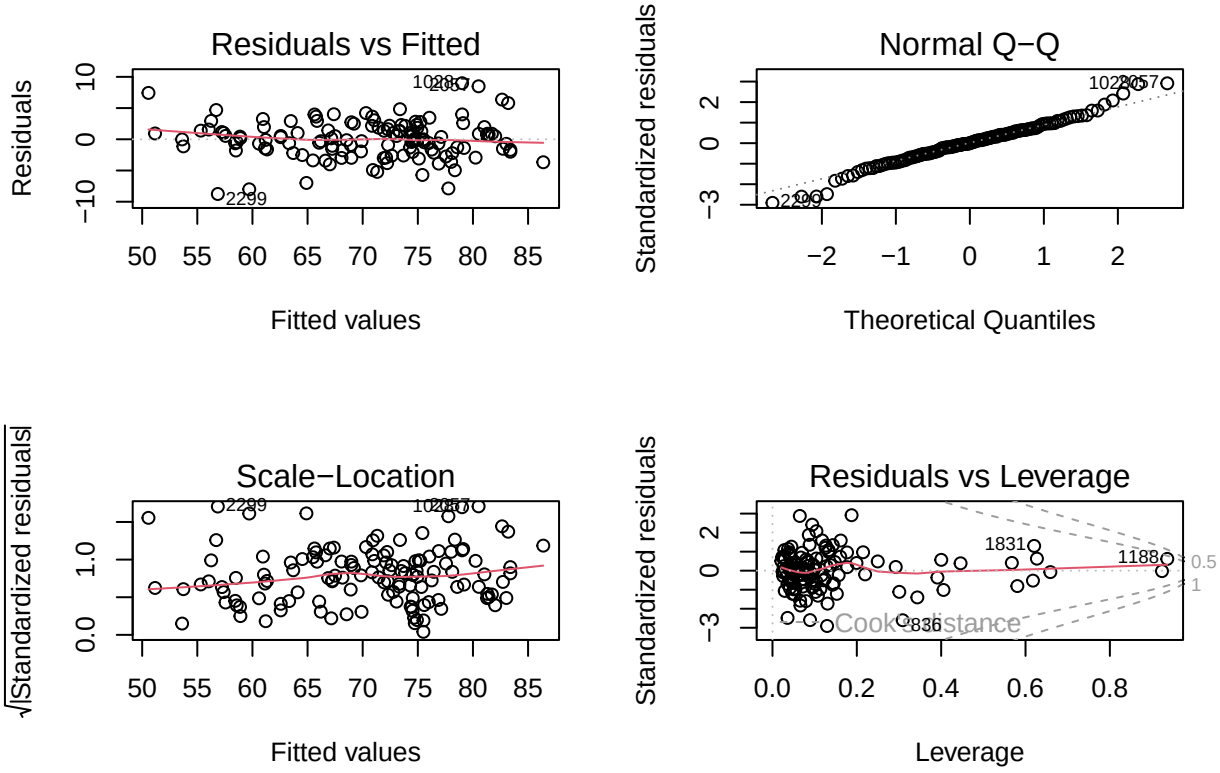

Table 1: Regression Summary

	Dependent variable:
	Life.expectancy
Adult.Mortality	−0.017 (0.004)
	p = 0.0001***
infant.deaths	0.080 (0.057)
	p = 0.162
under.five.deaths	−0.058 (0.039)
	p = 0.138
percentage.expenditure	0.001 (0.0004)
	p = 0.078*
Hepatitis.B	0.005 (0.028)
	p = 0.855
Measles	−0.00003 (0.00005)
	p = 0.533
BMI	−0.008 (0.020)
	p = 0.679
Polio	−0.002 (0.021)
	p = 0.922
HIV.AIDS	−0.848 (0.250)
	p = 0.001***
Diphtheria	0.014 (0.035)
	p = 0.691
GDP	−0.0001 (0.0001)
	p = 0.115
Schooling	−0.085 (0.275)
	p = 0.758
Income.composition.of.resources	35.379 (6.179)
	p = 0.00000***
StatusDeveloping	−1.407 (1.028)
	p = 0.174
Population	−0.000 (0.000)
	p = 0.813
thinness..1.19.years	−0.078 (0.228)
	p = 0.734
thinness.5.9.years	−0.070 (0.222)
	p = 0.754
Constant	52.234 (3.265)
	p = 0.000***
Observations	131
R^2	0.878
Adjusted R^2	0.859
Residual Std. Error	3.230 (df = 113)
F Statistic	47.631*** (df = 17; 113)
Note:	*p<0.1; **p<0.05; ***p<0.01

Table 2: Regression Summary

	Dependent variable:
	Life.expectancy
percentage.expenditure	0.001 (0.0005)
	p = 0.095*
under.five.deaths	−0.006 (0.004)
	p = 0.199
Hepatitis.B	0.014 (0.030)
	p = 0.637
Measles	−0.00002 (0.00005)
	p = 0.648
BMI	−0.010 (0.021)
	p = 0.635
Polio	0.006 (0.023)
	p = 0.777
HIV.AIDS	−1.328 (0.237)
	p = 0.00000***
Diphtheria	0.0004 (0.037)
	p = 0.992
GDP	−0.0001 (0.0001)
	p = 0.112
Schooling	−0.244 (0.292)
	p = 0.406
Income.composition.of.resources	45.135 (6.173)
	p = 0.000***
StatusDeveloping	−1.410 (1.099)
	p = 0.203
Population	0.000 (0.000)
	p = 0.191
thinness..1.19.years	−0.076 (0.101)
	p = 0.452
Constant	44.923 (3.022)
	p = 0.000***
Observations	131
R^2	0.856
Adjusted R^2	0.838
Residual Std. Error	3.461 (df = 116)
F Statistic	49.103*** (df = 14; 116)
Note:	*p<0.1; **p<0.05; ***p<0.01

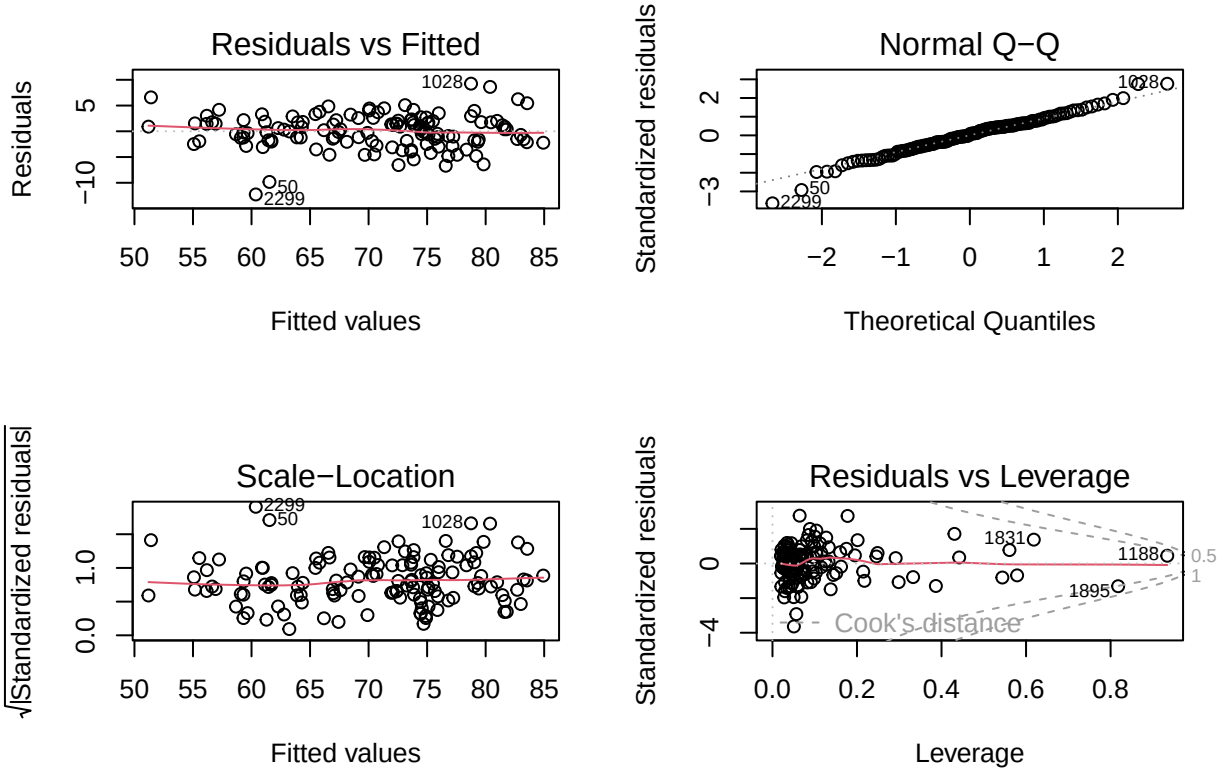
Residuals vs Fitted
Residuals
Fitted values
1028
50
2299
Normal Q−Q
Standardized residuals
Theoretical Quantiles
Scale−Location
√|Standardized residuals|
Residuals vs Leverage
Leverage
Cook's distance
1831
1188
1895
0.5
1

Table 3: Regression Summary

	Dependent variable:
	Life.expectancy
percentage.expenditure	0.001 (0.0005)
	p = 0.088*
Hepatitis.B	0.013 (0.030)
	p = 0.661
Measles	−0.00004 (0.00004)
	p = 0.409
BMI	−0.010 (0.021)
	p = 0.637
Polio	0.006 (0.023)
	p = 0.798
HIV.AIDS	−1.365 (0.236)
	p = 0.00000***
Diphtheria	0.003 (0.037)
	p = 0.932
GDP	−0.0001 (0.0001)
	p = 0.103
Schooling	−0.204 (0.291)
	p = 0.486
Income.composition.of.resources	45.156 (6.191)
	p = 0.000***
StatusDeveloping	−1.274 (1.097)
	p = 0.248
Population	0.000 (0.000)
	p = 0.510
thinness..1.19.years	−0.084 (0.101)
	p = 0.406
Constant	44.155 (2.971)
	p = 0.000***
Observations	131
R^2	0.854
Adjusted R^2	0.837
Residual Std. Error	3.471 (df = 117)
F Statistic	52.448*** (df = 13; 117)
Note:	*p<0.1; **p<0.05; ***p<0.01

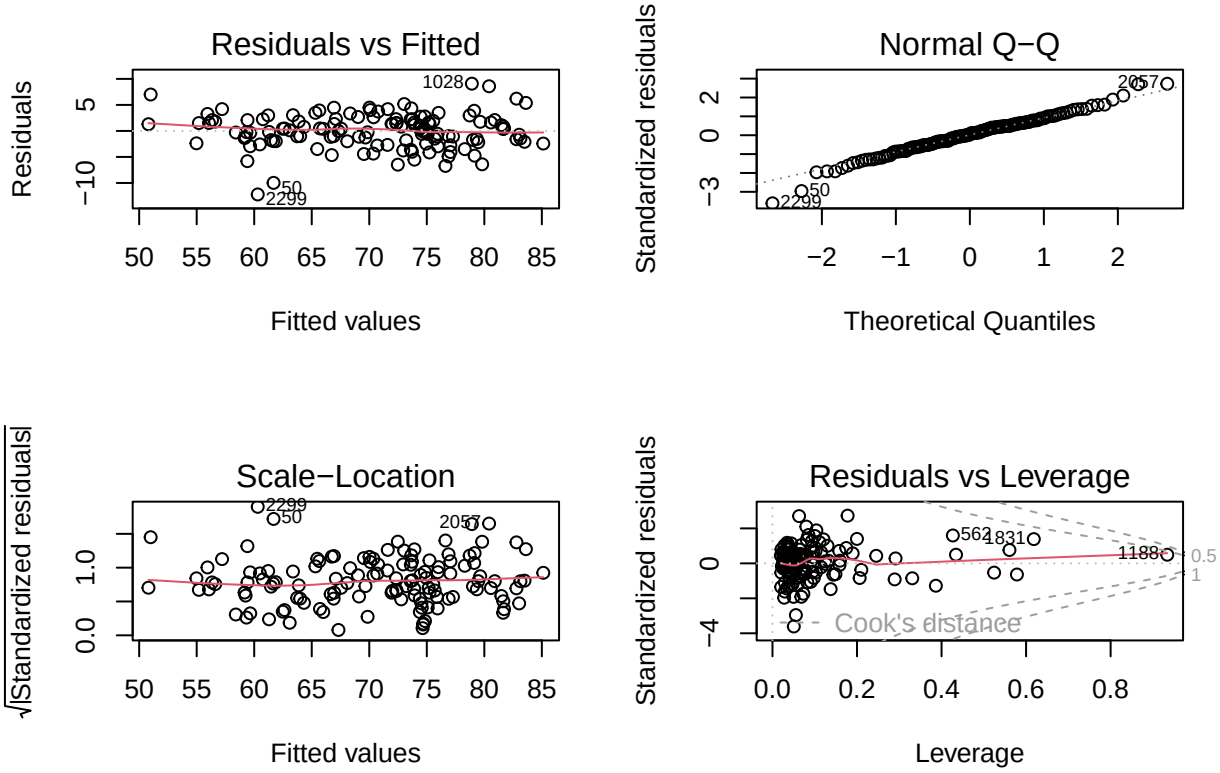
Residuals vs Fitted
Residuals
Fitted values
1028
50
2299
Normal Q−Q
Standardized residuals
Theoretical Quantiles
2057
50
2299
Scale−Location
√|Standardized residuals|
Fitted values
2299
50
2057
Residuals vs Leverage
Standardized residuals
Leverage
Cook's distance
562
1831
1188
0.5
1

Table 4: Regression Summary

	Dependent variable:
	Life.expectancy
percentage.expenditure	0.0001 (0.0001)
	p = 0.409
HIV.AIDS	−1.459 (0.207)
	p = 0.000***
Income.composition.of.resources	40.488 (2.346)
	p = 0.000***
StatusDeveloping	−1.022 (0.853)
	p = 0.233
Constant	45.514 (2.094)
	p = 0.000***
Observations	173
R^2	0.847
Adjusted R^2	0.843
Residual Std. Error	3.337 (df = 168)
F Statistic	232.135*** (df = 4; 168)
Note:	*p<0.1; **p<0.05; ***p<0.01

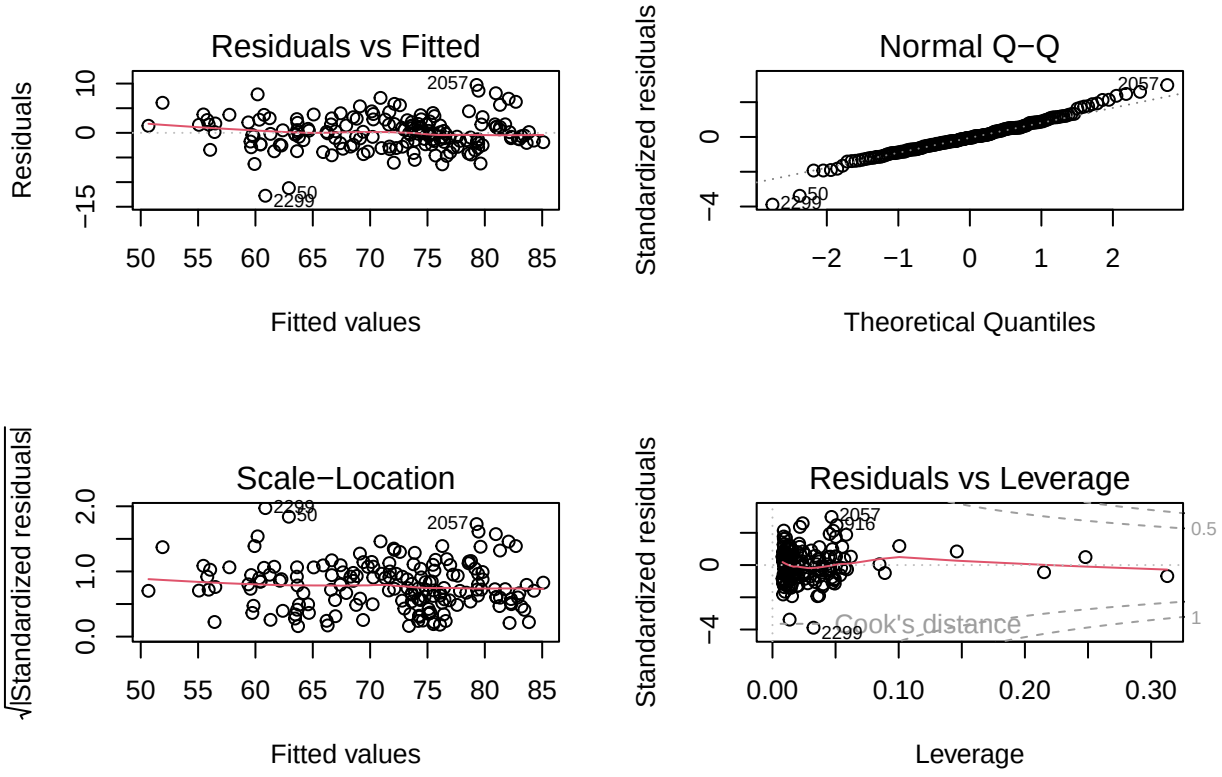

Table 5: Regression Summary

	Dependent variable:
	Life.expectancy
percentage.expenditure	0.001 (0.0002)
	p = 0.001***
StatusDeveloping	−7.608 (1.232)
	p = 0.000***
HIV.AIDS	−3.206 (0.310)
	p = 0.000***
Constant	79.371 (1.173)
	p = 0.000***
Observations	183
R^2	0.567
Adjusted R^2	0.560
Residual Std. Error	5.678 (df = 179)
F Statistic	78.222*** (df = 3; 179)
Note:	*p<0.1; **p<0.05; ***p<0.01