Life Expectancy Data EDA

Team Orange

2022-09-29
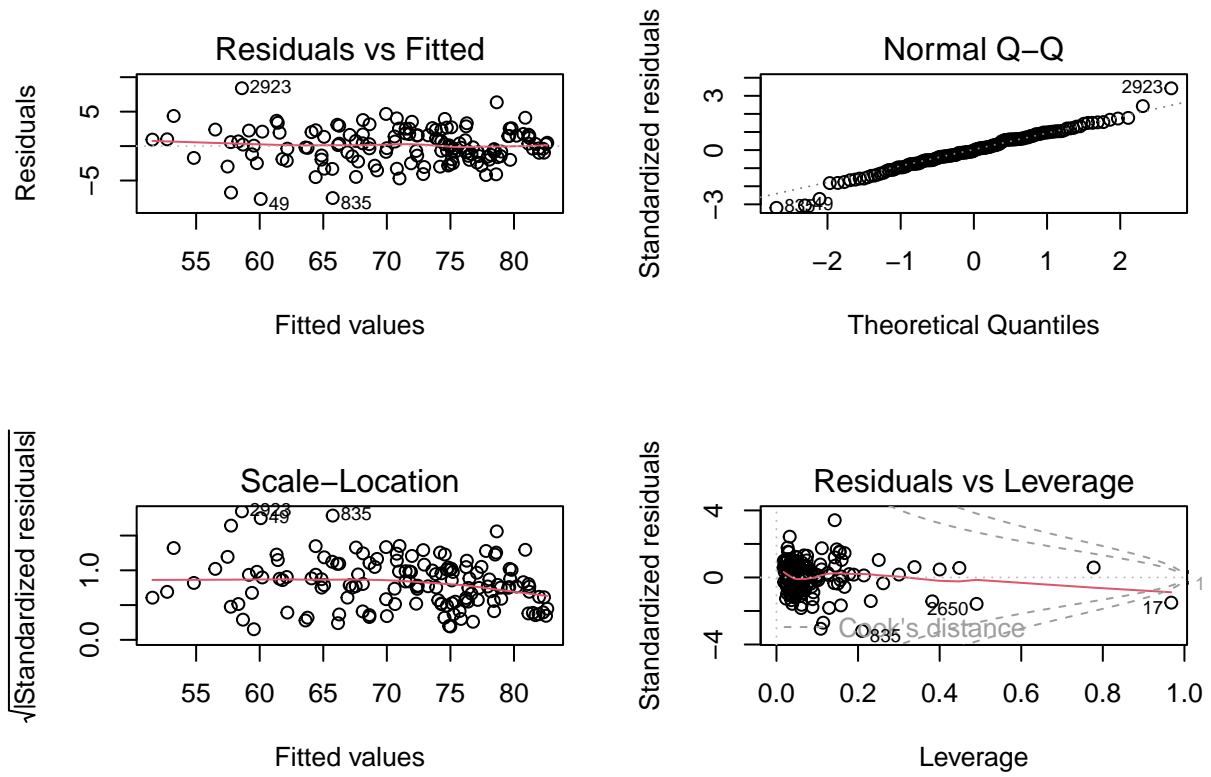
Table 1: Regression Summary

	Dependent variable:
	Life.expectancy
Adult.Mortality	−0.021 (0.004)
	p = 0.00000***
infant.deaths	0.066 (0.033)
	p = 0.047**
under.five.deaths	−0.048 (0.024)
	p = 0.045**
Hepatitis.B	0.043 (0.023)
	p = 0.058*
Measles	−0.0001 (0.0001)
	p = 0.374
BMI	−0.009 (0.015)
	p = 0.581
Polio	0.011 (0.013)
	p = 0.368
HIV.AIDS	−0.485 (0.224)
	p = 0.033**
Diphtheria	−0.011 (0.026)
	p = 0.675
GDP	0.00001 (0.00003)
	p = 0.867
Schooling	−0.048 (0.240)
	p = 0.843
Income.composition.of.resources	33.252 (4.981)
	p = 0.000***
StatusDeveloping	−0.342 (0.830)
	p = 0.681
Population	−0.000 (0.000)
	p = 0.917
thinness..1.19.years	−0.123 (0.234)
	p = 0.601
thinness.5.9.years	−0.017 (0.229)
	p = 0.940
Constant	50.404 (2.511)
	p = 0.000***
Observations	130
R^2	0.901
Adjusted R^2	0.886
Residual Std. Error	2.695 (df = 113)
F Statistic	63.948*** (df = 16; 113)

Note: *p<0.1; **p<0.05; ***p<0.01

Table 2: Regression Summary

	Dependent variable:
	Life.expectancy
under.five.deaths	−0.005 (0.005)
	p = 0.299
Hepatitis.B	0.037 (0.026)
	p = 0.150
Measles	0.00004 (0.0001)
	p = 0.406
BMI	−0.004 (0.017)
	p = 0.811
Polio	0.010 (0.014)
	p = 0.477
HIV.AIDS	−1.163 (0.215)
	p = 0.00000***
Diphtheria	−0.018 (0.030)
	p = 0.535
GDP	0.00001 (0.00003)
	p = 0.760
Schooling	−0.345 (0.268)
	p = 0.200
Income.composition.of.resources	44.309 (5.281)
	p = 0.000***
StatusDeveloping	−0.678 (0.942)
	p = 0.474
Population	−0.000 (0.000)
	p = 0.593
thinness..1.19.years	−0.036 (0.091)
	p = 0.694
Constant	44.863 (2.657)
	p = 0.000***
Observations	130
R^2	0.868
Adjusted R^2	0.853
Residual Std. Error	3.070 (df = 116)
F Statistic	58.423*** (df = 13; 116)

Note: *p<0.1; **p<0.05; ***p<0.01
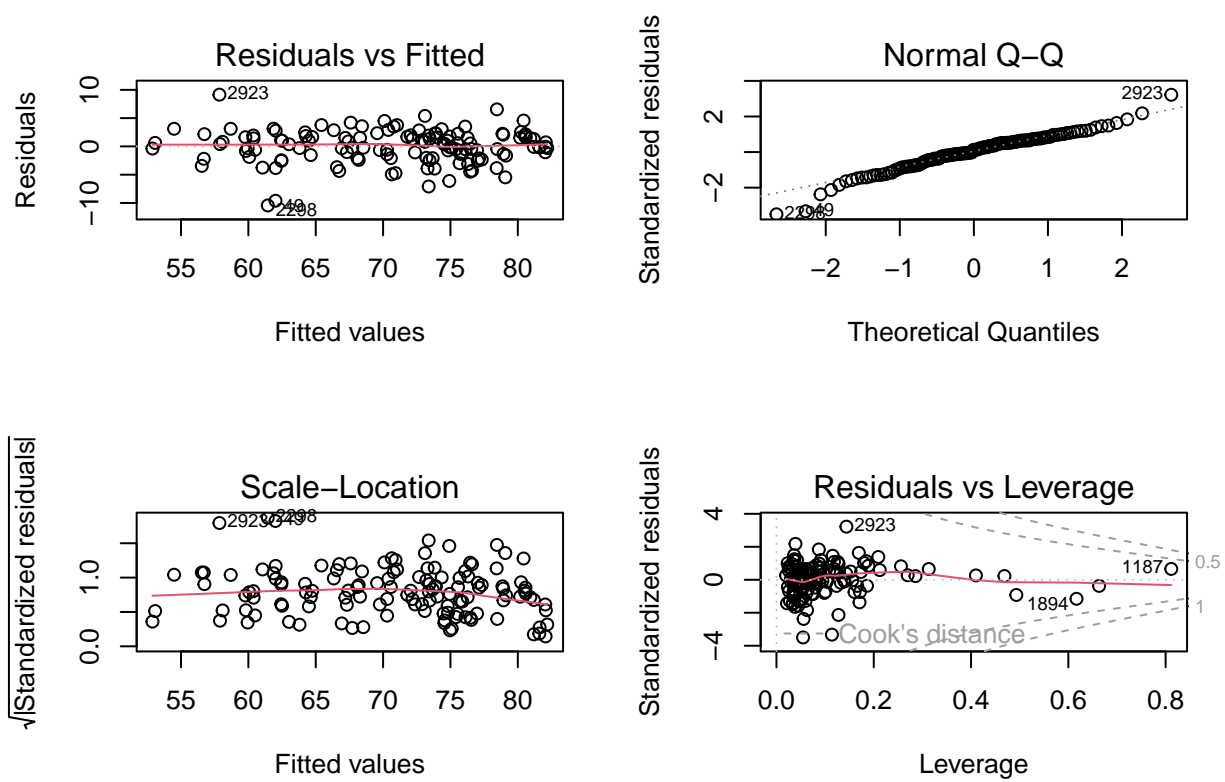
Table 3: Regression Summary

	Dependent variable:
	Life.expectancy
Hepatitis.B	0.037 (0.026)
	p = 0.154
Measles	0.00000 (0.00003)
	p = 0.964
BMI	−0.006 (0.017)
	p = 0.744
Polio	0.009 (0.014)
	p = 0.539
HIV.AIDS	−1.181 (0.215)
	p = 0.00000***
Diphtheria	−0.015 (0.029)
	p = 0.605
GDP	0.00001 (0.00003)
	p = 0.776
Schooling	−0.312 (0.266)
	p = 0.243
Income.composition.of.resources	43.990 (5.274)
	p = 0.000***
StatusDeveloping	−0.588 (0.938)
	p = 0.532
Population	−0.000 (0.000)
	p = 0.284
thinness..1.19.years	−0.077 (0.082)
	p = 0.351
Constant	44.680 (2.652)
	p = 0.000***
Observations	130
R^2	0.866
Adjusted R^2	0.853
Residual Std. Error	3.071 (df = 117)
F Statistic	63.152*** (df = 12; 117)

Note: *p<0.1; **p<0.05; ***p<0.01
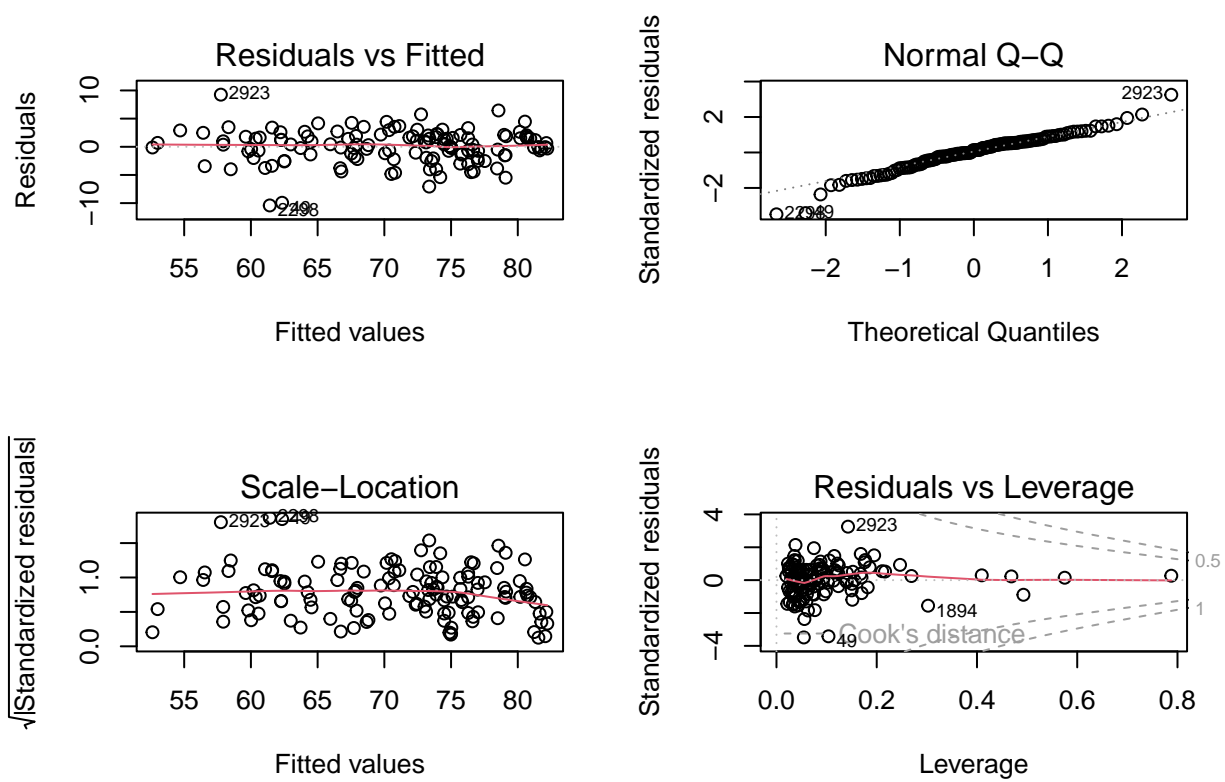
Table 4: Regression Summary

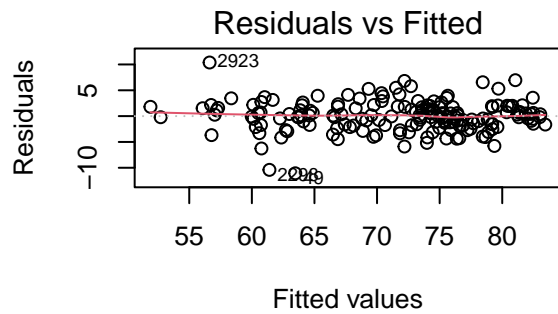|	Dependent variable:
	Life.expectancy
HIV.AIDS	−1.370 (0.186)
	p = 0.000***
Income.composition.of.resources	39.834 (1.975)
	p = 0.000***
StatusDeveloping	−0.891 (0.722)
	p = 0.220
Constant	45.812 (1.833)
	p = 0.000***
Observations	173
R^2	0.866
Adjusted R^2	0.864
Residual Std. Error	2.927 (df = 169)
F Statistic	364.975*** (df = 3; 169)

Note: *p<0.1; **p<0.05; ***p<0.01
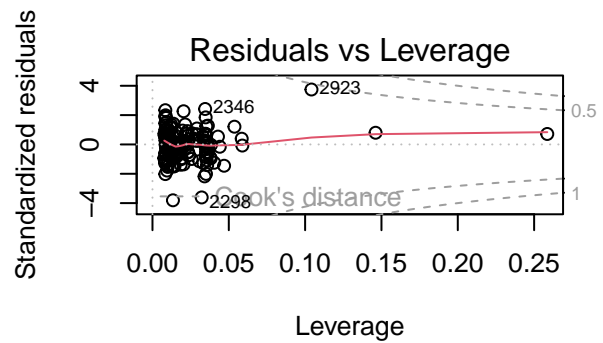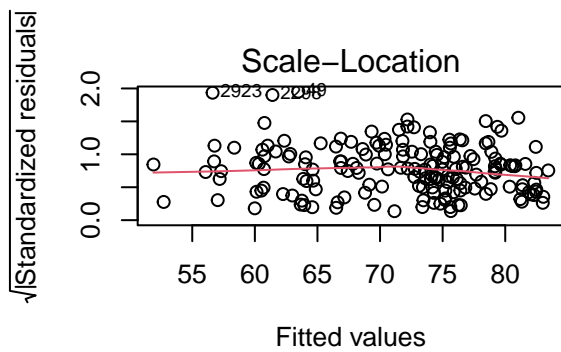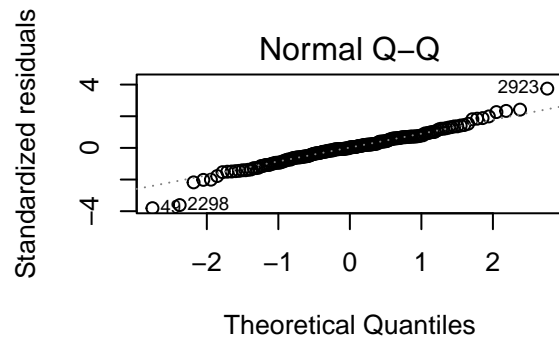
Table 5: Regression Summary

	Dependent variable:
	Life.expectancy
StatusDeveloping	−8.850 (1.104)
	p = 0.000***
HIV.AIDS	−3.193 (0.313)
	p = 0.000***
Constant	81.029 (0.984)
	p = 0.000***
Observations	183
R^2	0.536
Adjusted R^2	0.531
Residual Std. Error	5.565 (df = 180)
F Statistic	103.917*** (df = 2; 180)

Note: *p<0.1; **p<0.05; ***p<0.01