Prediction Developing Countries' Life Expectancy

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2.1 Response Variable

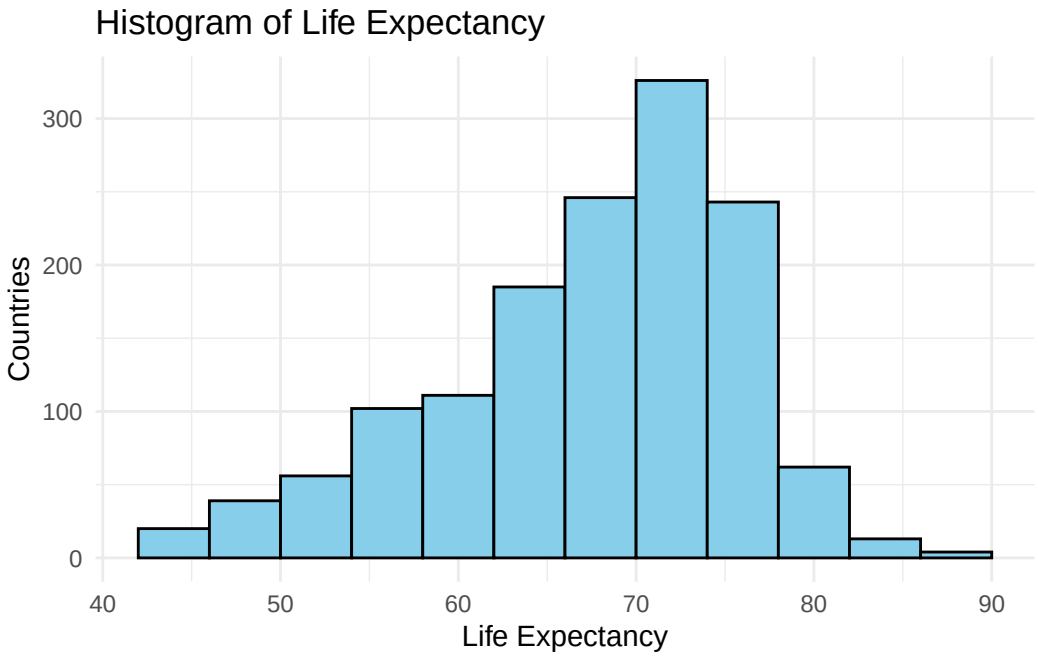
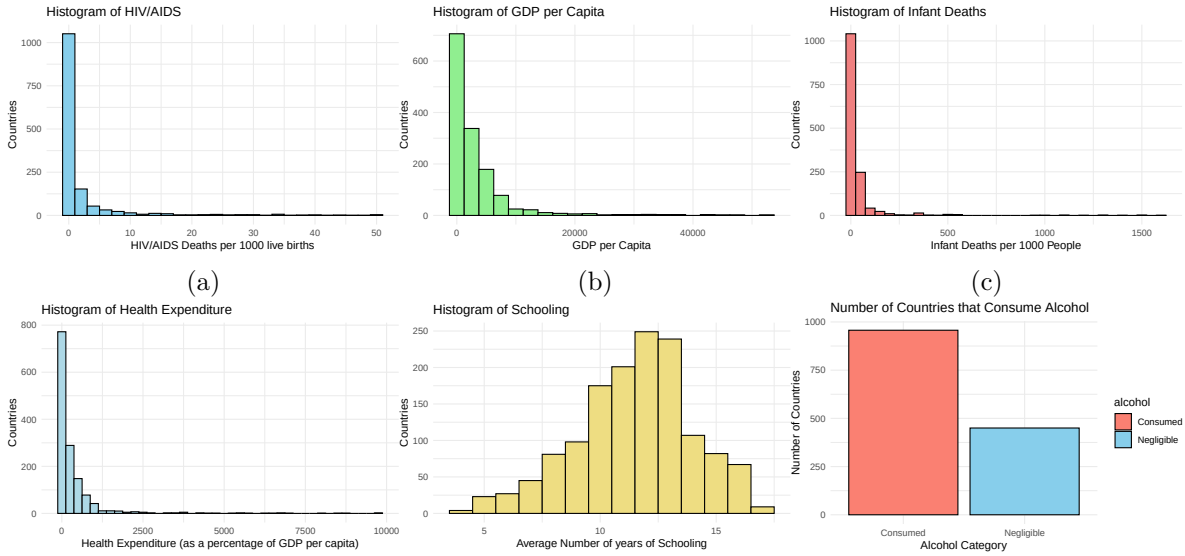


Figure 1

2.2 Predictor Variables



(a) (b) (c)

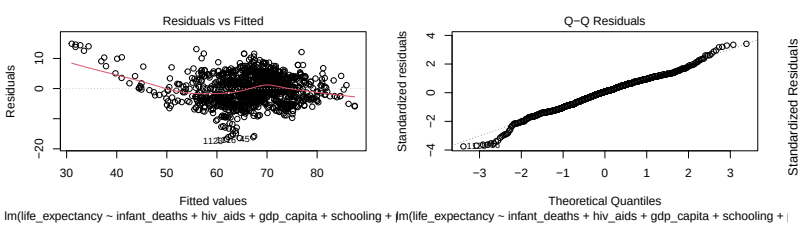
(d) (e) (f)

	(1)
(Intercept)	49.504
	(0.748)
infant_deaths	−0.002
	(0.001)
hiv_aids	−0.671
	(0.019)
gdp_capita	0.000
	(0.000)
schooling	1.701
	(0.061)
percentage_expenditure	0.001
	(0.000)
alcoholNegligible	−0.670
	(0.286)
Num.Obs.	1407
R2	0.717
R2 Adj.	0.716
AIC	8205.8
BIC	8247.8
Log.Lik.	−4094.887
RMSE	4.44

3 Preliminary Results

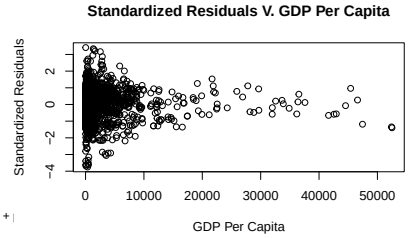
3.1 Basic Linear Model Summary

Model is Life Expectancy = GDP Per Capita + Infant Deaths (per 1000 people) + HIV/AID Deaths (per 1000 live births) + Health Expenditure (as a percentage of GDP per Capita) + Average Number of Years of Schooling + Alcohol Consumption (Negligible Consumption vs. Alcohol is Consumed)



(a)

(b)



(c)

3.2 Residual Plots

3.2.1 Linear Regression Residual Assumptions:

3.2.1.1 Linearity

3.2.1.2 Normal Errors

3.2.1.3 Constant Variance Assumption

4 Conclusion