

CSSM 502 – HW 2 Report

In this homework, I investigated relationship between "Suicide mortality rate (per 100,000 population)" and "gdppc" (GDP per Capita). I used World Bank data. My control variable was "income level" of a country. I fixed this variable because I think that it has impact on independent variable and dependent variable. Therefore, I only look at the countries which has "HIC" (High Income Level) income level flag.

My hypothesis was that there is a positive relationship between "Suicide mortality rate (per 100,000 population)" and "gdppc".

If we perform regression analysis by help of **linearRegression()** function, regression results will be as following:

	Coefficients	Standard Error	Lower 95%	Upper 95,0%
Intercept	11,080032	2,22015960	6,61845425	15,5416098
gdppc	1.88557081e-06	4.37043412e-05	-8.59415909e-05	8.97127325e-05

If we look at the %95 Confidence Interval (CI) for gdppc, we will see that CI includes the 0 value. Therefore, we reject the null hypothesis.