Zb117

Goal:

In the span of 29 years (i.e. 1985- 2014), analyze the overall suicide trend wether it has been increasing or decreasing and determine which factor caused(or impacted) the trend to change compared to previous years.

((**SMART Goal**: a goal that is Specific, Measurable, Attainable, Realistic, and Time-Bound.))

Relevant dependent variable:

1. Total No of Suicide : Suicide no field, for each individual country according to each year.
2. Total No of Suicide/100k : Suicide.100k.pop field, no of deaths by suicide for total 100,000 deaths.

((**Dependent Variables**: variables that directly pertain to the accomplishment of the S.M.A.R.T. goal.))

Specific Questions:

1. Which age-group of people or particular gender mostly have been the victim of suicide the most considering there demographical and biographical information.
2. How the suicide rate evolves during the long period of time?

Independent Variables:

For 1st question : population, age-group, sex , country , country.year, generation

For 2nd question : population, HDI.for.year, gdp\_for\_year, gdp\_per\_capita

Specific Analyses & Graphs:

* Age-group Histogram
* Suicide vs years (Male & female) Graph plot.
* GDP vs years Line plot.
* Suicides 100k vs GDP per capita Box plot
* Co-relation between quantitative variables
* Analysis of Variance. ANOVA
* Multivariate Analysis.

**Hypothesis for question1**:

People between ages of 15-24 are the most potential group for attempting suicide. These group of people are mostly belonged to generation x that had tough life and struggled with some issues like parent’s divorce.

**Hypothesis for question2**:

Reviewing the data set shows that by increasing the gdp, suicide rate has been increased in average but there is not a linear relationship between them.