**INFO 659 Data Analytics Final project abstract**

**Team:**

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**Title:** World Health Organization: Suicides and trends

**Data Format:** The data set is obtained from kaggle in .CSV format.

**Data Source:** https://www.kaggle.com/russellyates88/suicide-rates-overview-1985-to-2016

**Data Columns:**

* country
* year
* sex
* age
* suicides\_no
* population
* suicides/100k pop
* country-year
* HDI for year
* gdp\_for\_year($)
* gdp\_per\_captia($)
* generation

**Data Description:**

This is a real data set created by merging four different sources (mentioned in the references) and the final dataset is obtained from Kaggle.

This data set contains data about number of suicides recorded across Globe from the years 1985 to 2016.

**Project Scope:**

The objective of this project is to understand and predict the suicide rate globally with respect to socio-economic factors, age group and sex.

We are trying to establish the correlation between different variables to predict “suicides\_no and suicides/100k pop”.

The project implementation, analysis and visualization will be done using ‘R’ functions/modules.

In this project, time series analysis will be performed and will predict following years suicide numbers. We will also try to do clustering based on some factors like country or continent or age.

In this project we will be doing Exploratory Data Analysis (EDA) based on certain columns like ‘Suicidesper100k’. We will do EDA for Global Suicidesper100k and trends over time by continent, by sex, by age, by country.

**References**

United Nations Development Program. (2018). Human development index (HDI). Retrieved from <http://hdr.undp.org/en/indicators/137506>

World Bank. (2018). World development indicators: GDP (current US$) by country:1985 to 2016. Retrieved from [http://databank.worldbank.org/data/source/world-development-indicators#](http://databank.worldbank.org/data/source/world-development-indicators)

[Szamil]. (2017). Suicide in the Twenty-First Century [dataset]. Retrieved from <https://www.kaggle.com/szamil/suicide-in-the-twenty-first-century/notebook>

World Health Organization. (2018). Suicide prevention. Retrieved from <http://www.who.int/mental_health/suicide-prevention/en/>