**World Happiness Dataset (2015)**

Number of observations: 142  
Number of variables: 23

Description of the Data:

The dataset used for the multivariate analysis of “World Happiness 2015” is mainly obtained from a world happiness report that was released by the United Nations on the International Day of Happiness. The report reviews the state of happiness in the world due to some common measurements of well-being and ranks them accordingly. The goal of this report was to assess not only the progress of nations, but also to inform governments, organizations and civil society about their policy-making decisions.

The so called “Happiness Score” basically assigns a ranking to 142 countries worldwide. The scores are based on answers to the main life evaluation of an individual performed by poll survey of Gallup World Poll. The features following the happiness score estimate the extent to which each factor contributes to a high life evaluation. These features are about

* Economy production,
* Social support,
* Life expectancy,
* Freedom,
* Absence of corruption and
* Generosity.

To extend the search space for variables that explain happiness, the final dataset used was extended by some external features that are mentioned below:

For the

* Which are the factors linked to happiness?
* Which factors lead to low, mid or high happiness score?

Show map, explain first 3 and why,

Explain last 3 and why

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| **#Nr** | **Variable Name** | **Type** | **Description** | **Source** |
| 1 | Country | String | Name of the country (baseline) | <https://www.kaggle.com/unsdsn/world-happiness> |
| 2 | Clean Water | Numeric | Share of the population with access to improved drinking water | <https://ourworldindata.org/water-access-resources-sanitation> |
| 3 | Suicide | Numeric | Suicide rates are number of deaths per 100,000 people; that is, the number of suicides in a country in a year, divided by the population and multiplied by 100,000. | <https://ourworldindata.org/suicide> |
| 4 | Mental and Substance Disorder | Numeric | People experienced an anxiety disorder | <https://ourworldindata.org/mental-health> |
| 5 | Birth Rate | Numeric | Children born per woman | <https://ourworldindata.org/fertility-rate> |
| 6 | Alcohol Consumption | Numeric | Average consumption of different beverage types per person | <https://ourworldindata.org/alcohol-consumption> |
| 7 | Child Mortality | Numeric | Population dying and surviving the first 5 years of life | <https://ourworldindata.org/child-mortality> |
| 9 | Population   * Not for PCA/FA | Numeric | Total Population of the Country | <https://ourworldindata.org/world-population-growth> |
| 10 | Cellular Subscriber | Numeric | Mobile cellular subscriptions (per 100 people), 2015  Mobile phone subscriptions, measured as the number per 100 people. | <https://ourworldindata.org/internet> |
| 11 | Internet Use | Numeric | Shows the share of the population that is accessing the internet for all countries of the world.  Share of individuals using the internet in 2015, measured as the percentage of the population.  Internet users are individuals whohave used the Internet (from any location) in the last 3 months.  The Internet can be used via a computer, mobile phone,personal digital assistant, games machine, digital TV etc. | <https://ourworldindata.org/internet> |
| 12 | Air Pollution | Numeric | PM2.5 air pollution, mean annual exposure (micrograms per cubic meter) | <https://ourworldindata.org/air-pollution> |
| 13 | Region | String | Region the country belongs to | <https://www.kaggle.com/unsdsn/world-happiness> |
| 14 | Happiness Rank | Numeric | Rank of the country based on the Happiness Score | <https://www.kaggle.com/unsdsn/world-happiness> |
| 15 | Happiness Score | Numeric | A metric measured in 2015 by asking the sampled people the question: "How would you rate your happiness on a scale of 0 to 10 where 10 is the happiest." | <https://www.kaggle.com/unsdsn/world-happiness> |
| 16 | Standard Error | Numeric | The standard error of the happiness score. | <https://www.kaggle.com/unsdsn/world-happiness> |
| 17 | Economy (GDP per Capita) | Numeric | The extent to which GDP contributes to the calculation of the Happiness Score. | <https://www.kaggle.com/unsdsn/world-happiness> |
| 18 | Family | Numeric | The extent to which Family contributes to the calculation of the Happiness Score.  Quality of family life, nuclear and joint family | <https://www.kaggle.com/unsdsn/world-happiness> |
| 19 | Health (Life Expectancy) | Numeric | The extent to which Life expectancy contributed to the calculation of the Happiness Score. | <https://www.kaggle.com/unsdsn/world-happiness> |
| 20 | Freedom | Numeric | How much an individual is able to conduct themselves based on their free will | <https://www.kaggle.com/unsdsn/world-happiness> |
| 21 | Trust (Government Corruption) | Numeric | The extent to which Perception of Corruption contributes to Happiness Score. | <https://www.kaggle.com/unsdsn/world-happiness> |
| 22 | Generosity | Numeric | How much their country is involved in peacekeeping and global aid | <https://www.kaggle.com/unsdsn/world-happiness> |
| 23 | Dystopia Residual   * reject | Numeric | The extent to which Dystopia Residual contributed to the calculation of the Happiness Score.  Dystopia is a society that is frightening. | <https://www.kaggle.com/unsdsn/world-happiness> |
| 24 | Forest Area Land Percentage | Numeric | Percentage of forest in a land |  |
| 25 | Electricity Access | Numeric |  |  |
| 26 | Infant Immunization Measles | Numeric | Percentage of children ages 12-23 months that have been vaccinated to this disease |  |
| 27 | FDI Net Flow |  | Foreign investments |  |
| 28 | Urban Population |  | Percentage of population that live in an urban or rural environment |  |
| 29 | Obesity |  | How many people suffer from obesity |  |
| 30 | Compulsory Education |  |  |  |
| 31 | GDP Imports   * reject |  |  |  |
| 32 | FDI Imports   * reject |  |  |  |
| 33 | Military Personnel   * reject? |  | Percentage of the population that is a member of the military |  |
| 34 | Depression   * reject? |  |  |  |
| 35 | CO2 Emission   * reject |  |  |  |
| 36 | Agriculture Land |  |  |  |
| 37 | Child Birth Maternal Mortality   * reject |  | Women that die when giving birth |  |
| 38 | Automotive Mortality |  |  |  |
| 39 | Population Growth |  |  |  |
| 40 | Entrepreneurship Cost |  | How much it is to create a business |  |
| 41 | HIV Disease |  |  |  |