

Assignment 4: Becoming an Independent Data Scientist: Index of Happiness Related with Internet usage and PISA scores.

1- Region and Domain

The analysis cover the most of the countries in the world, analyzing statistics from three different Datasets where different matrixes were collected for each Country.

2- Research Question

The research question was to identify the relation of the happiness of a country with:

1. its level of instruction using the PISA scores and the differences between male and female for the PISA score,
2. The technological level of a country using the Internet diffusion.
3. The health/medical status using the Mortality rate, infant (per 1,000 live births)

3- Links

For the analysis, three different data sets have been used:

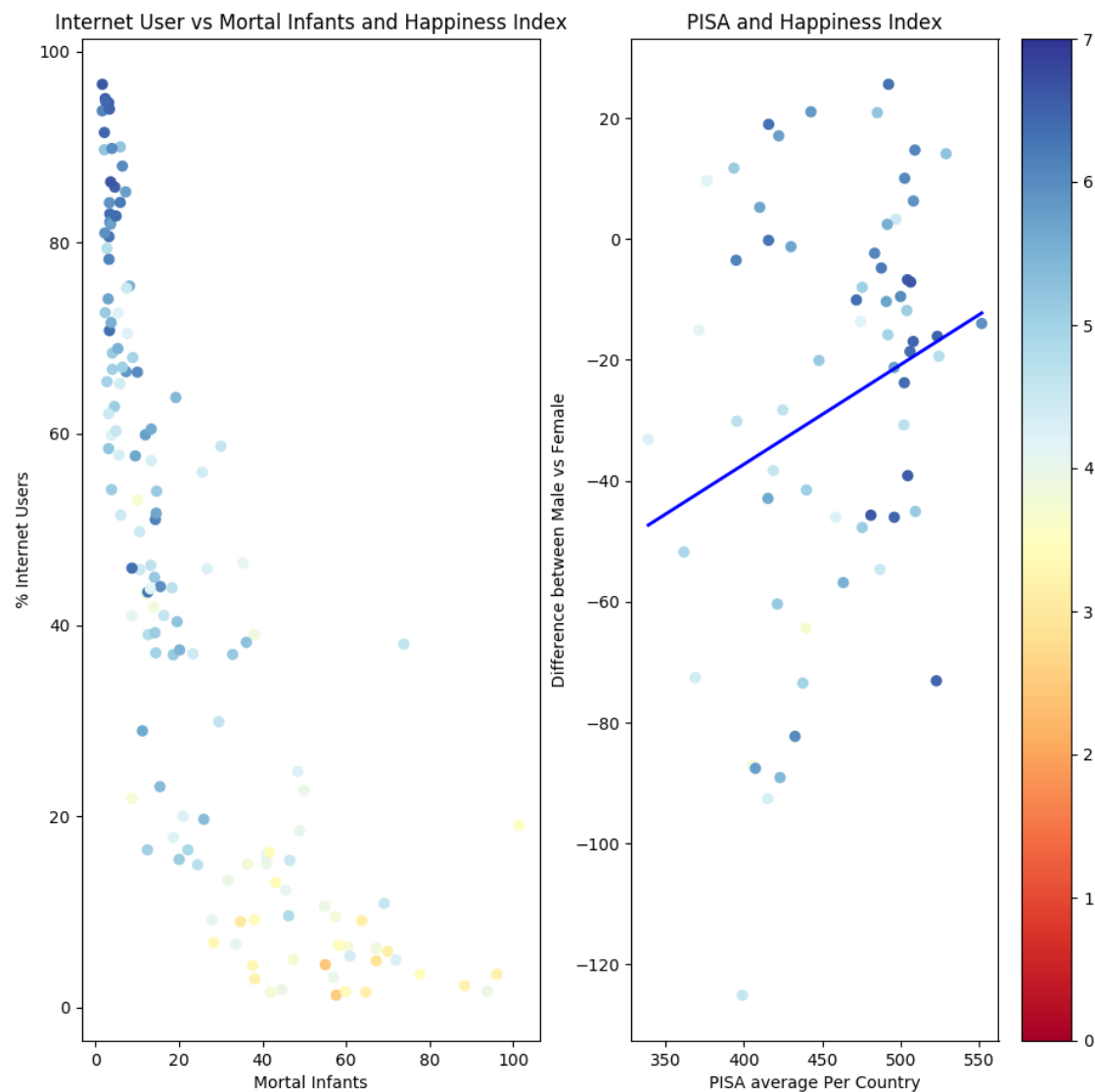
- PISA stands for "Program for International Student Assessment" and it is applied to 15-year-old students across the world to assess their performance in Math, Reading and Science.

Link to the data set <https://www.kaggle.com/zazueta/pisa-scores-2015/downloads/Pisa%20mean%20performance%20scores%202013%20-%202015%20Definition%20and%20Source.csv>

- Reading the Happiness Data-set:
<http://worldhappiness.report/ed/2017/>

- World Bank indicators
<https://www.kaggle.com/worldbank/world-development-indicators>

4- Image



5- Discussion

The two diagrams show five different indexes,

The one on the left has the mortality rate vs %internet users and the color is based on the Happiness index. On the plot can be seen the inverted relation between the internet user of a country and the rate of its infant mortality. In the same graph is represented the similar relation of the level of happiness that follow the same relation (the happiness index is low where we have high mortality rate and low internet usage, and high in the other condition).

The graph of the right show the relation between the Average per Country of the PISA versus the difference of the male and the female. Here it can be seen that as the average of the level increase the difference of the Male versus Female decrease, in the same time can be seen that level of happiness

increase with the improvement of the PISA scores.