A Data Analysis Project

On

Life Expectancy

By

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Project Description

The dataset related to life expectancy, health factors for 193 countries has been collected from the same under World Health Organization (WHO) data repository website and its corresponding economic data was collected from United Nation website.

The project relies on accuracy of data. It consists of 22 Columns and 2938 rows which meant 20 predicting variables. All predicting variables was then divided into several broad categories: Immunization related factors, Mortality factors, Economical factors and social factors.

Let's familiarize Ourself with the Dataset

- ▶ Status: Developing or Developed Country by WHO standards
- ► Adult mortality: Adult mortality rate per 1000 population
- ► HIV/AIDS : deaths per 1000 live births caused by HIV/AIDS
- ▶ GDP Gross Domestic Product per capita
- ▶ **Hepatitis b**: Number of 1 year olds with Hepatitis B immunization

Let's familiarize Ourself with the Dataset

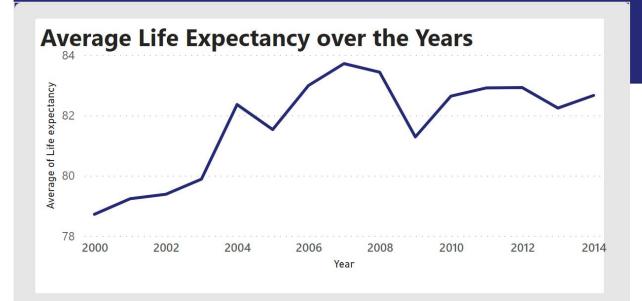
- Income Composition of Resources: Human Development Index in terms of income composition of resources (index ranging from 0 to 1)
- ▶ Total expenditure Government expenditure on health as a percentage of total government expenditure
- Schooling (Ratio) average number of years of schooling of a population
- ▶ **Polio**: Number of 1 year olds with Polio immunization
- ▶ **Diphtheria**: Number of 1 year olds with Diptheria immunization
- ▶ **BMI:** Body Mass Index



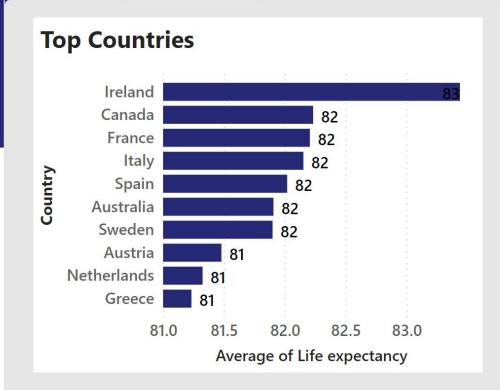
Questions the Analysis aims to answer

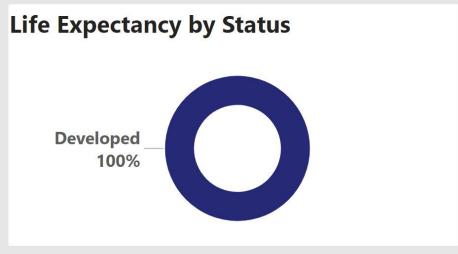
- What are the predicting variables actually affecting the Life expectancy?
- How does Infant and Adult mortality rates affect Life expectancy?
- What is the impact of Immunization coverage on Life Expectancy?
- What's the economic impact on Life Expectancy?
- Does Life Expectancy has positive or negative correlation with lifestyle and fitness

Life Expectancy

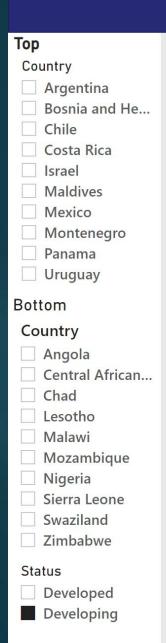


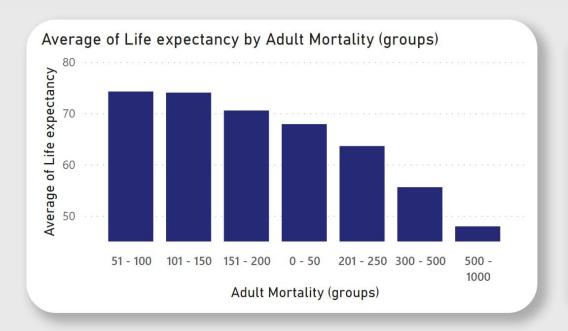


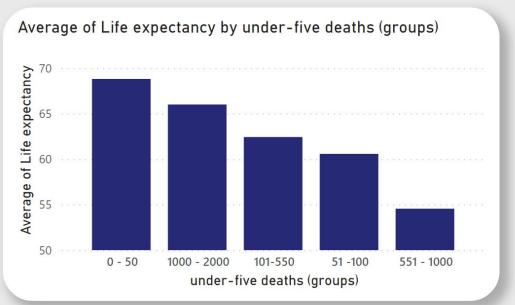


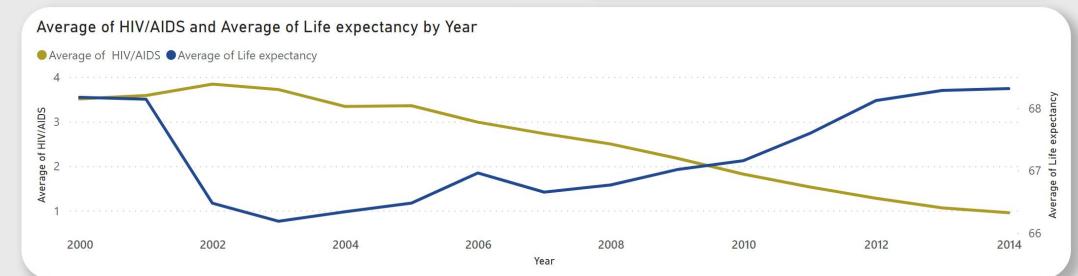


Mortality

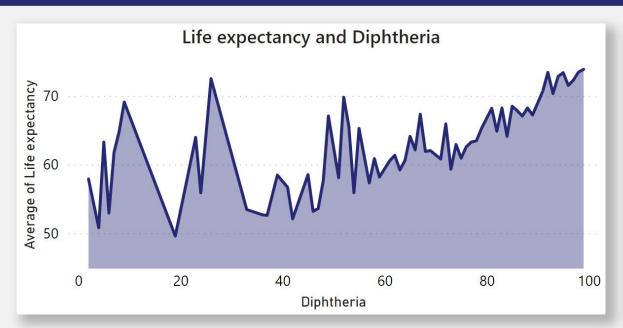


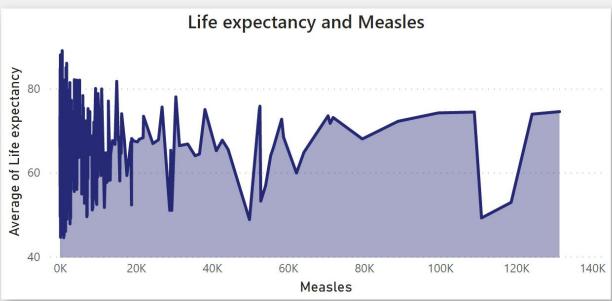


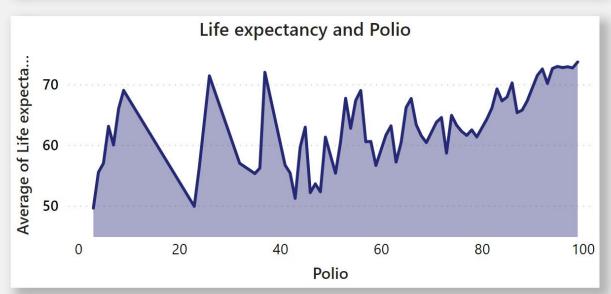


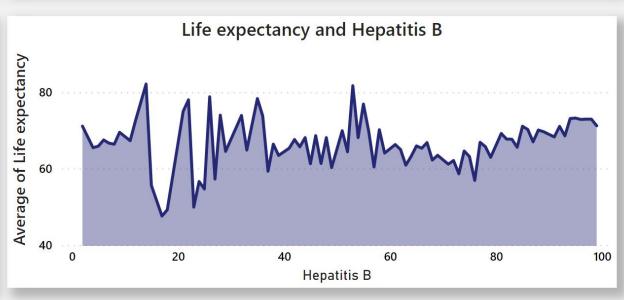


Immunization

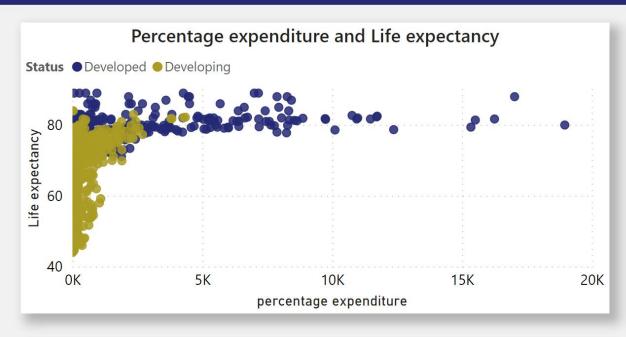


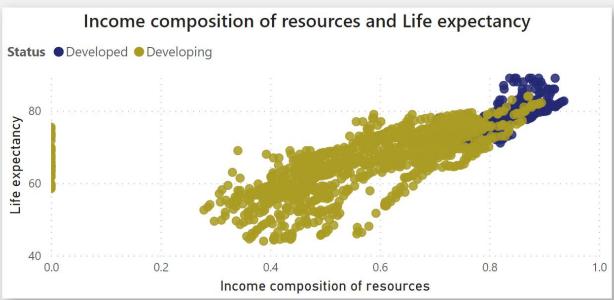


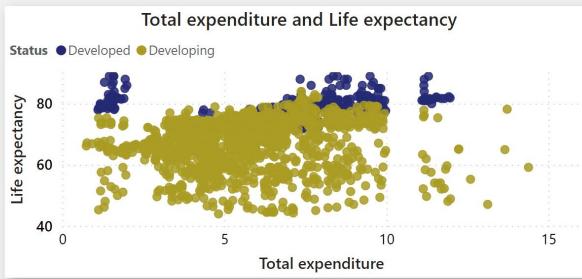


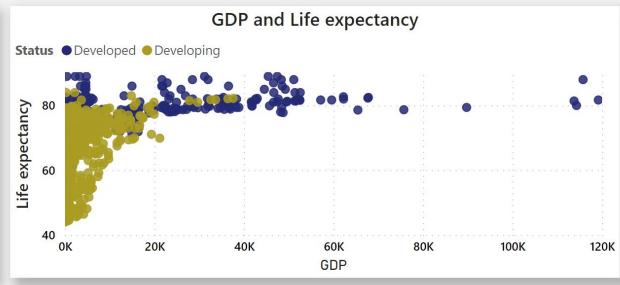


Socio Economic

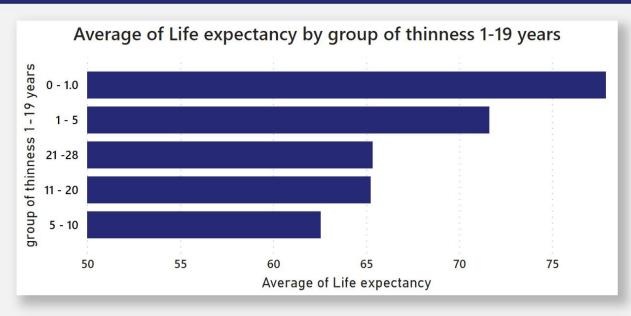


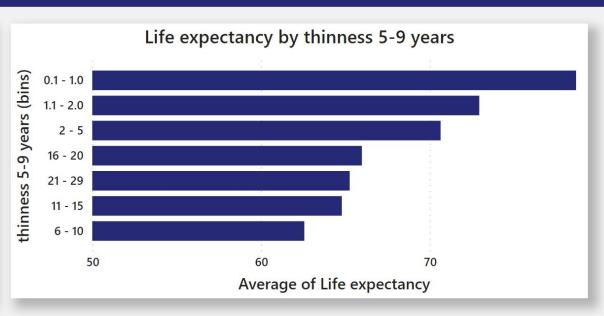


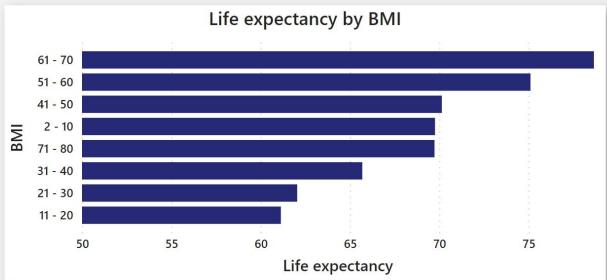


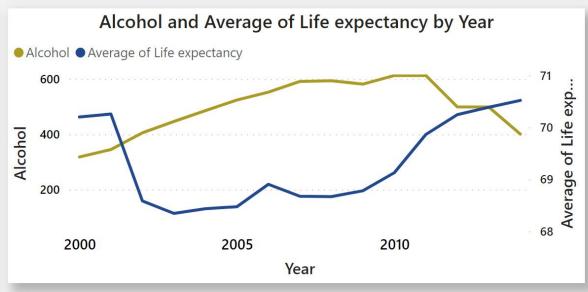


Lifestyle and fitness

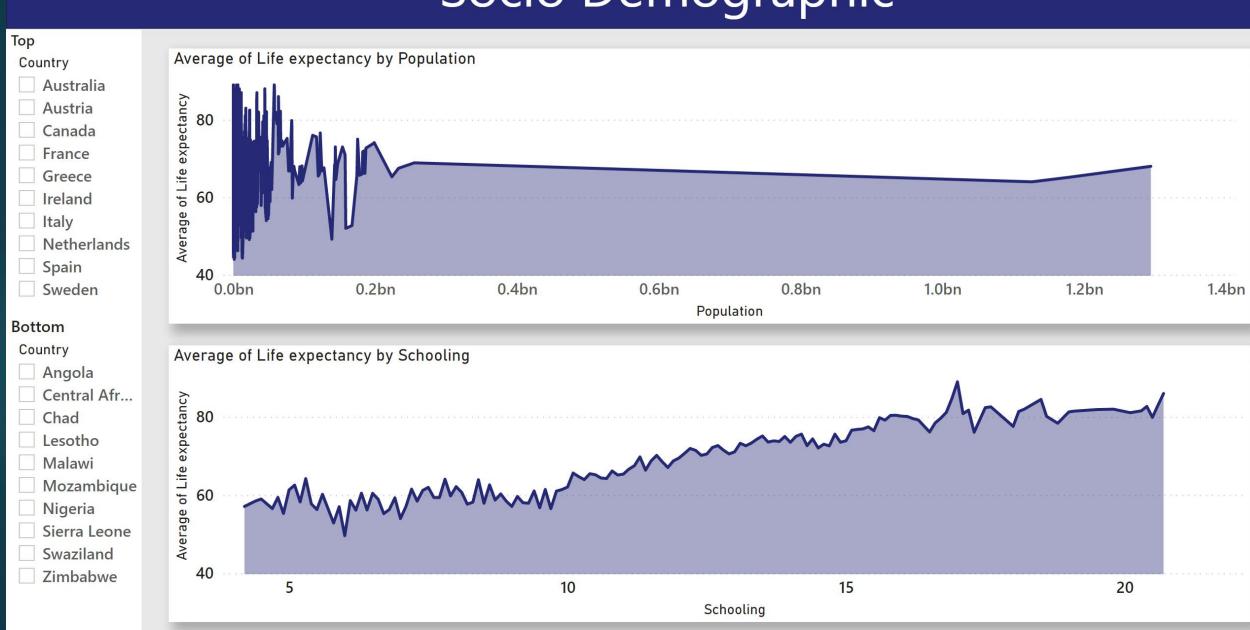








Socio Demographic



Conclusion

▶ Life expectancy is likely to increased in a developed countries than developing countries, Average of Life expectancy for Developed (79.16) was higher than Developing (67.24).

On average when schooling increases, life expectancy increases

Life expectancy Increased the most when under-five deaths was less than or equal to 1

Conclusion

When number of HIV- AIDS cases reduces, the Life expectancy increases

On average Countries with High GDP and health expenditure have a high life expectancy

The average Life expectancy increases with high number of immunization cases and high number of immunization was recorded in developed countries

Recommendation

► Keep developing your country, increase health expenditure and enlighten citizen about healthy lifestyle.