

Life Expectancy and How The Population Affects The Projected Journey



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DSB 1015



Objective Overview

Objective:

- To provide insight on the correlation between the life expectancy and population size in the countries around the world from the years 1800 - 2100.

Keep in Mind!

- How does the population size alone affect the outcome of how long you are expected to live?
- Is population size alone enough to determine the duration of your life?



Data Overview

Data Munged: (<http://localhost:8888/lab/workspaces/auto-g/tree/data/population.csv?reset>);
(http://localhost:8888/lab/workspaces/auto-U/tree/data/life_expectancy.csv?reset);
(<https://www.cdc.gov/nchs/nvss/life-expectancy.htm#data>)

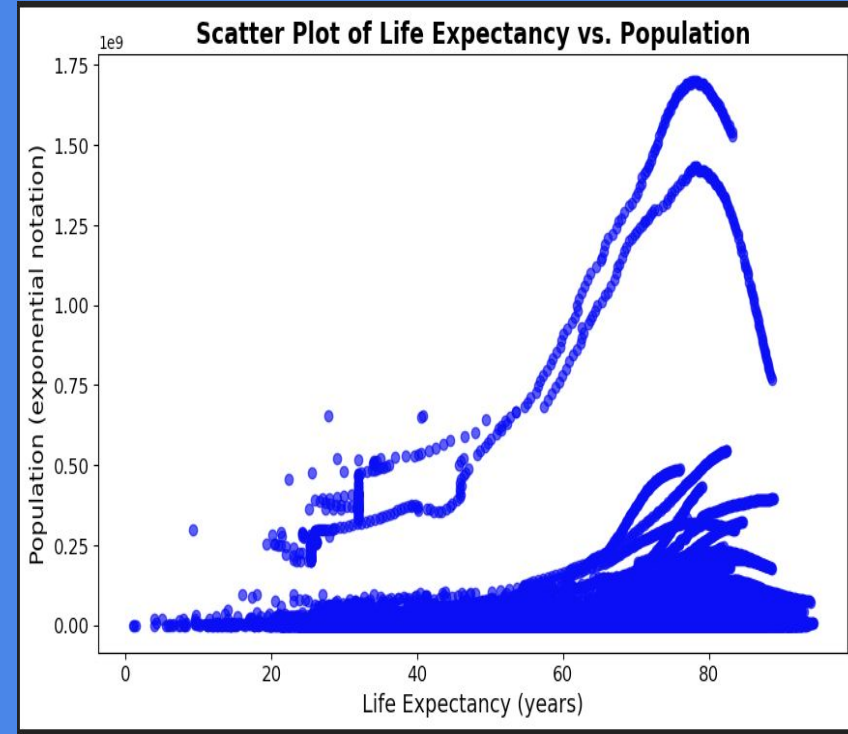
Utilized Data: (From 1800 - 2100)

- Population size csv file
- Life Expectancy csv file
- National Center for Health Statistics

Findings

Discoveries:

- Countries that had a smaller population had a shorter life expectancy vs those who live in a more populated area.
- Though we are only looking at the population size alone there may be hidden features to factor in such as advanced medicines, investments, etc. The variables are unknown.

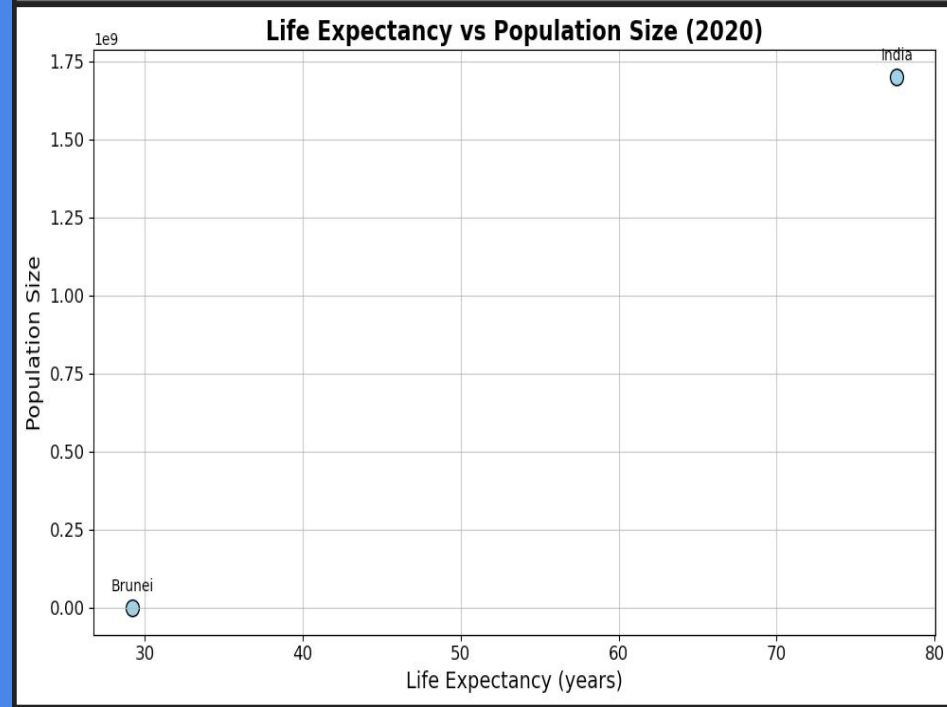


Findings 2

Discoveries:

- No matter what era you decided to choose from; without deniable evidence the higher populated country tends to have a higher expectancy vs the smaller populated countries.

Indication that there is somewhat of an impact of life expectancy based on the size of the population.





Possible Solution

Research Breakdown:

- Though the charts support the claim that the size of the population is enough to determine the life expectancy with given information. I say it is not enough because smaller players could also play a key role such as economic, healthcare access, government regulations and policies, etc.

Recommendations:

- Factor in how features of the population affects life expectancy such as gpi, do largely populated countries receive more or less funding?
- Do smaller populated countries healthcare system have access to the same technology as larger countries?
- Are private investors more focused on larger populations over smaller countries?



Key Takeaways

Main Point:

- Larger populated countries tend to have a positive correlations to life expectancy over smaller countries, which could be in thanks to higher gni.
- There could be enough data to support the claim the population has a impact on life expectancy but on the [scatter plot](#) you see a form of correction begin to happen which could support there are more factors to include before making the conclusion.



Questions?