**README**

**Healthy Life Expectancy**

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**Introduction**

    Healthy life expectancy is a multidimensional concept influenced by various factors that contributes to an individual's overall health outcomes. By exploring some of the factor’s correlations, variations, and trends with in different demographic groups, I gained a valuable insight about the overall health expectancy and wellbeing globally.

**Motivation**

I chose this project because one of my family members always complains about her health after she had COVID-19. I was curious whether COVID-19 would impact our healthy life expectancy. However, after I explored all possible data sources about Covid-19, I found that it is too early to determine as a factor. Then I Keep looking to identify any potential factors that affect healthy life expectancy, GDP per capita and BMI might be one of the factors that influences our healthy life expectancy outcomes.

**Data Question**

How does healthy life expectancy correlate with GDP per capita in different demographic groups of the world? Is there any pattern based on different BMI categories overtime?

**Technologies Used**

    - Python

    - PowerBI

    - Excel

    - Power point

    - Web scrapping

**Schedule (through <date of demo day>)**

    - Get the Data (11/26/2023)

    - Clean & Explore the Data (12/08/23)

    - Create Presentation of your Analysis (12/14/23)

    - Internal demos (01/02/24)

    - Demo Day!! (01/04/24)

**Data Sources**

    - <https://www.ncdrisc.org/>

    - <https://ourworldindata.org/grapher/gdp-per-capita-worldbank>

    - <https://gfmag.com/data/countries-by-income-group>

    - <https://vizhub.healthdata.org/>

**Known Issues and Challenges**

    - Get data in my own data frame.

    - Looking UpToDate data.

    - Getting my project topic based on my interest.

    - found a lot of missing data especially in BMI table.

**Conclusion**

 In summary, my analysis reveals a positive correlation between healthy life expectancy and GDP per capita, indicating a potential contribution of economic development to improved health care and overall well-being. However, the relationship between healthy life expectancy and BMI is nuanced. Recognizing the importance of considering BMI along with other factors is crucial for having a significant connection. Uncovering variations in income groups, regions and outliers in a specific country underscores the necessity for targeted policies on global scale. Overall analysis provides valuable insights to the complex interplay between health outcomes, economic development, and lifestyle factors across a diverse nation, emphasizing the need for nuanced and adaptable approaches to public health policies globally.