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Topic: Correlation Analysis between Life Expectancy and Four Key Components (immunization related, mortality, economical, and social factors) between 2000 and 2015

A brief description of this topic:

Due to data availability and easy calculation and interpretation, correlation analysis plays an important role to analyze Life Expectancy between countries and potential influencing factors and to monitor trends over decades. The database used in this project containing information about Life Expectancy and 18 potential influencing factors, for the years 2000 and 2015, was gathered from 193 countries from world health organization (WHO)'s global health observatory (GHO). The data sourced from the GHO data repository under the WHO which ensures its analysis' accuracy. Based on the observation of the provided data, positive and negative correlation can be explored among these 18 potential influencing factors. On this analysis, some scrapes have the potential possibility to be resolved. In addition, it also inspired us to seek more deeper influencing factors and more rethinking. Supposing these potential influencing factors are divided into four categories: immunization related, mortality, economical, and social factors, which category contributed more weights to the Life Expectancy? On this analysis, some scrapes also have the potential possibility to be resolved. For instance, if there exists a lower Life Expectancy value (< 65), which factors can be adapted to improve its average lifespan? Except the provided 18 potential influencing factors, Does the other factors, such as eating habit, lifestyle, exercise, smoking, drinking alcohol, and the population density have positive or negative impacts on Life Expectancy? More deeper rethinking, what is the essence of these influencing factors? national development policies? economic levels? Or resource distribution? Based on the provided database and more rethinking, the objective of this project is to find these scrapes and provide an inspiration for the researchers.