

A photograph of an older man and woman riding bicycles on a paved path in a park. The man in the foreground is wearing a light grey long-sleeved shirt, light-colored trousers, and glasses, and is smiling broadly. The woman in the background is also smiling and wearing a light-colored top and shorts. The path is surrounded by lush green trees and bushes under a bright sky with some clouds.

Specialized Retirement Plans

Ryan Keats 26th July 2023

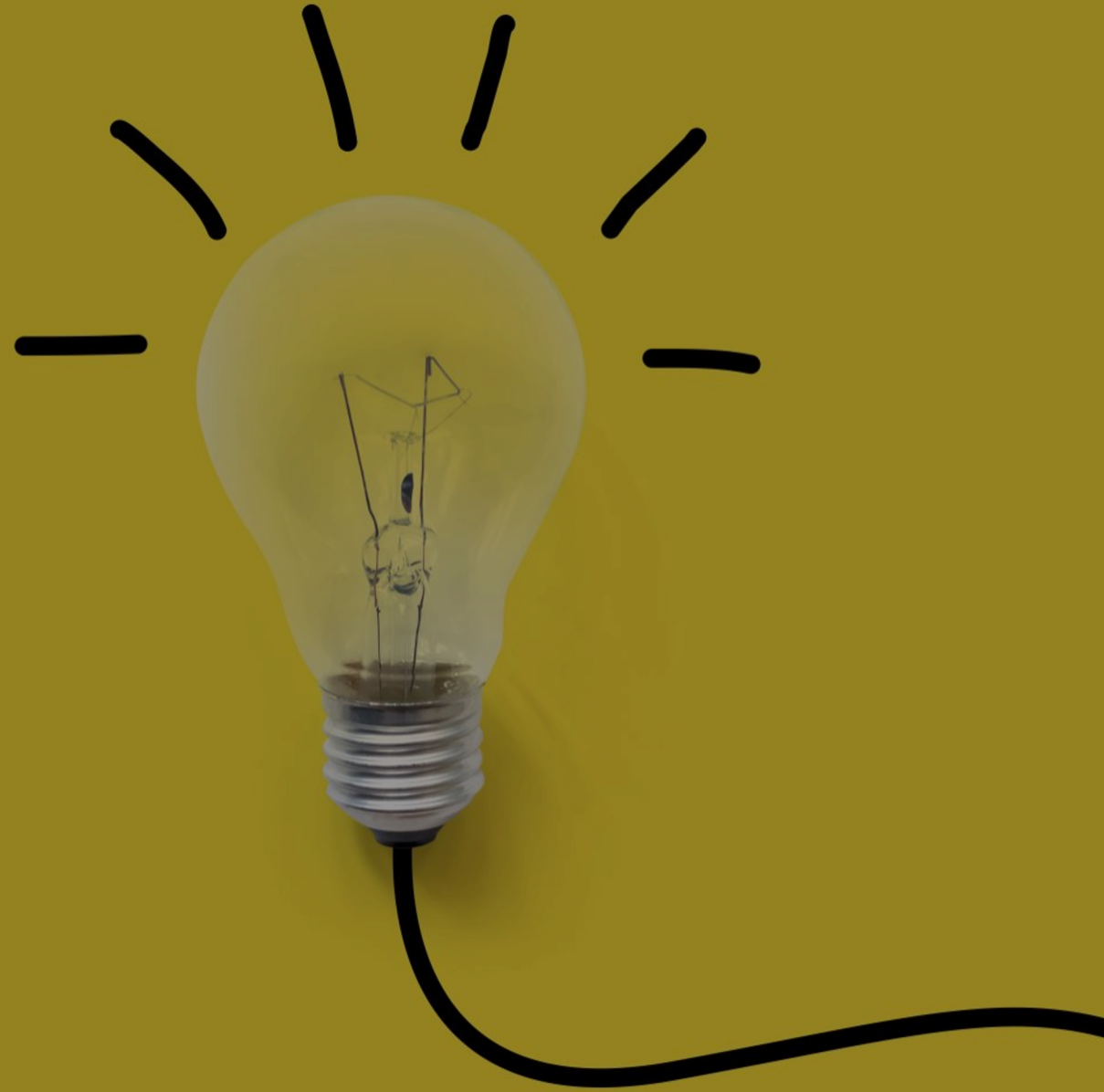


Summary

This project analyses life expectancy data and the variables associated to provide personalised retirement planning recommendations for financial planners, optimising clients' retirement plans based on life expectancy projections and securing their financial future.

Outline

- Business Problem
- Results
- Data & Methods
- Conclusions





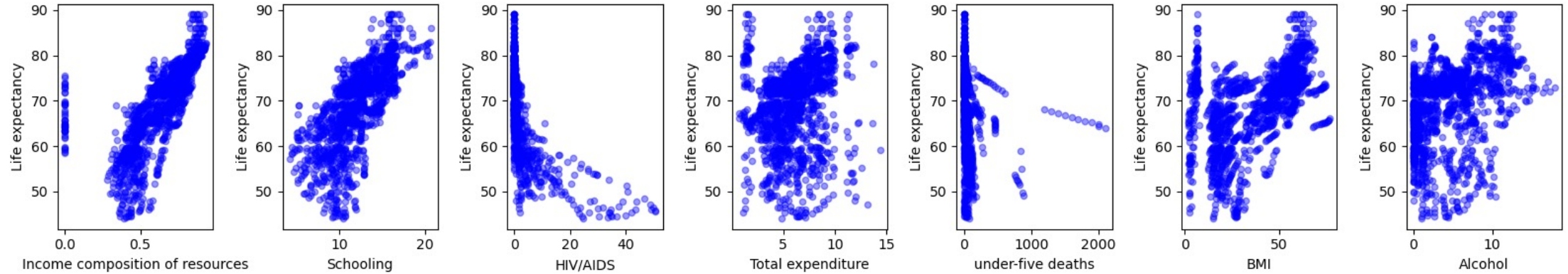
Business Problem

The financial institution seeks assistance in identifying the ideal retirement age for clients using life expectancy data and considering health, lifestyle, and financial factors to provide personalised retirement plans ensuring clients' financial security in their retirement.

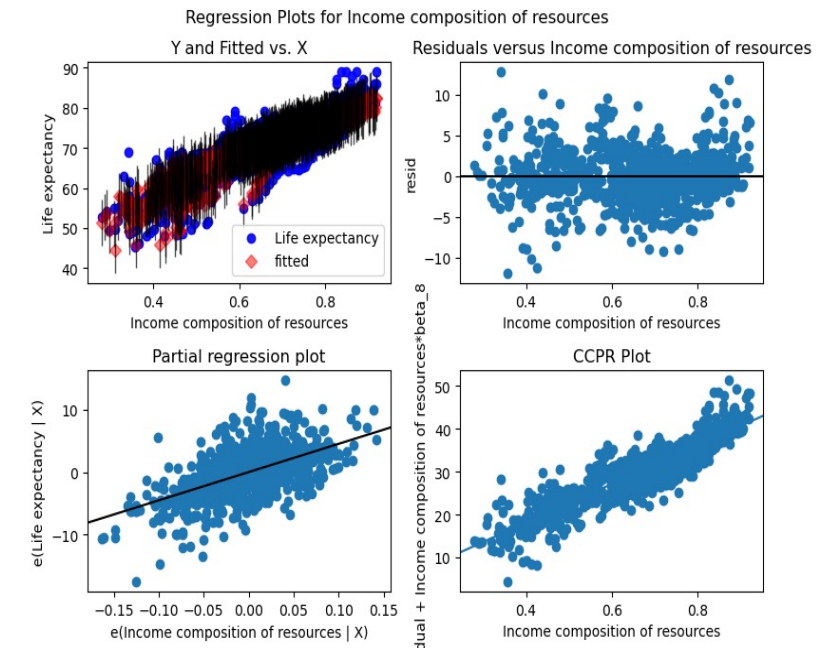
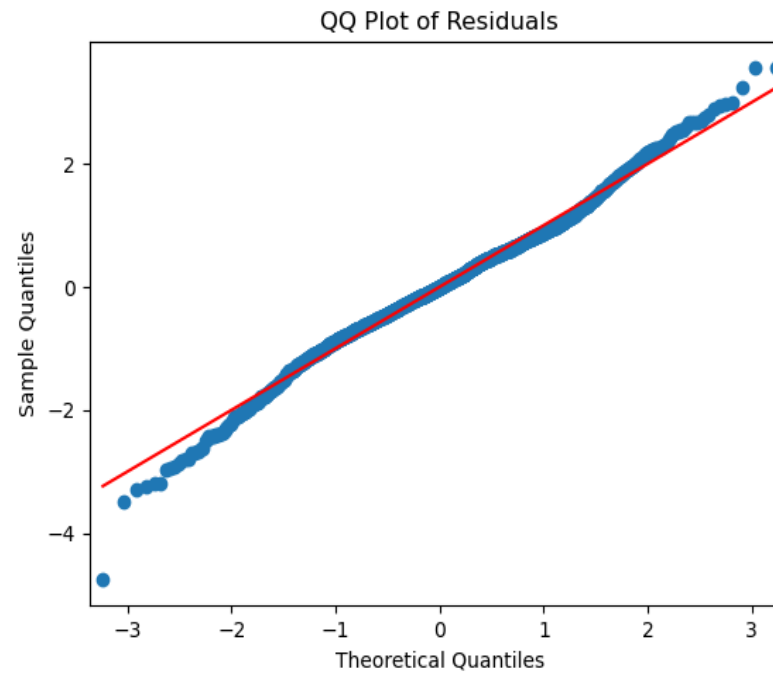
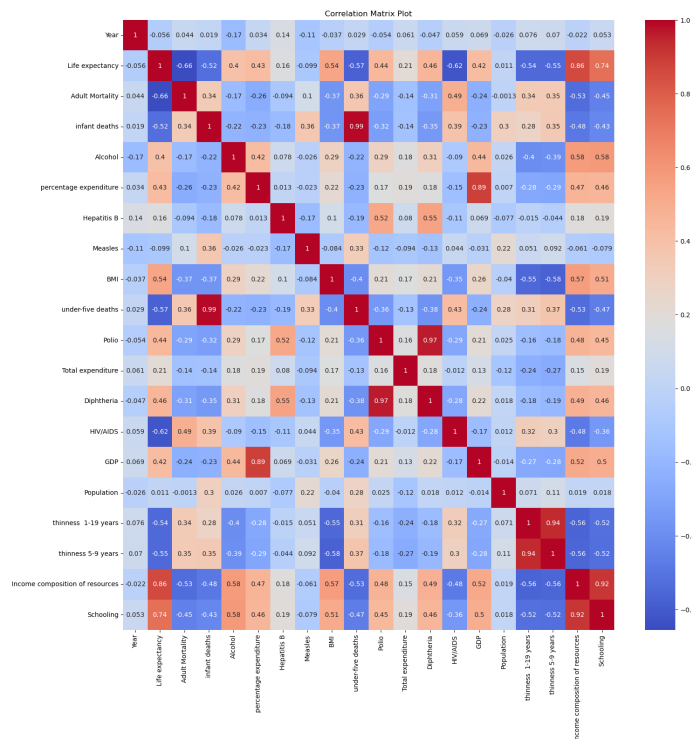


Data

The dataset used for the final regression modeling is from Kaggle and provided by WHO, focusing on life expectancy. It contains Economic, Health, and Demographic indicators, facilitating in-depth statistical analysis to uncover factors impacting life expectancy across various regions and time periods.



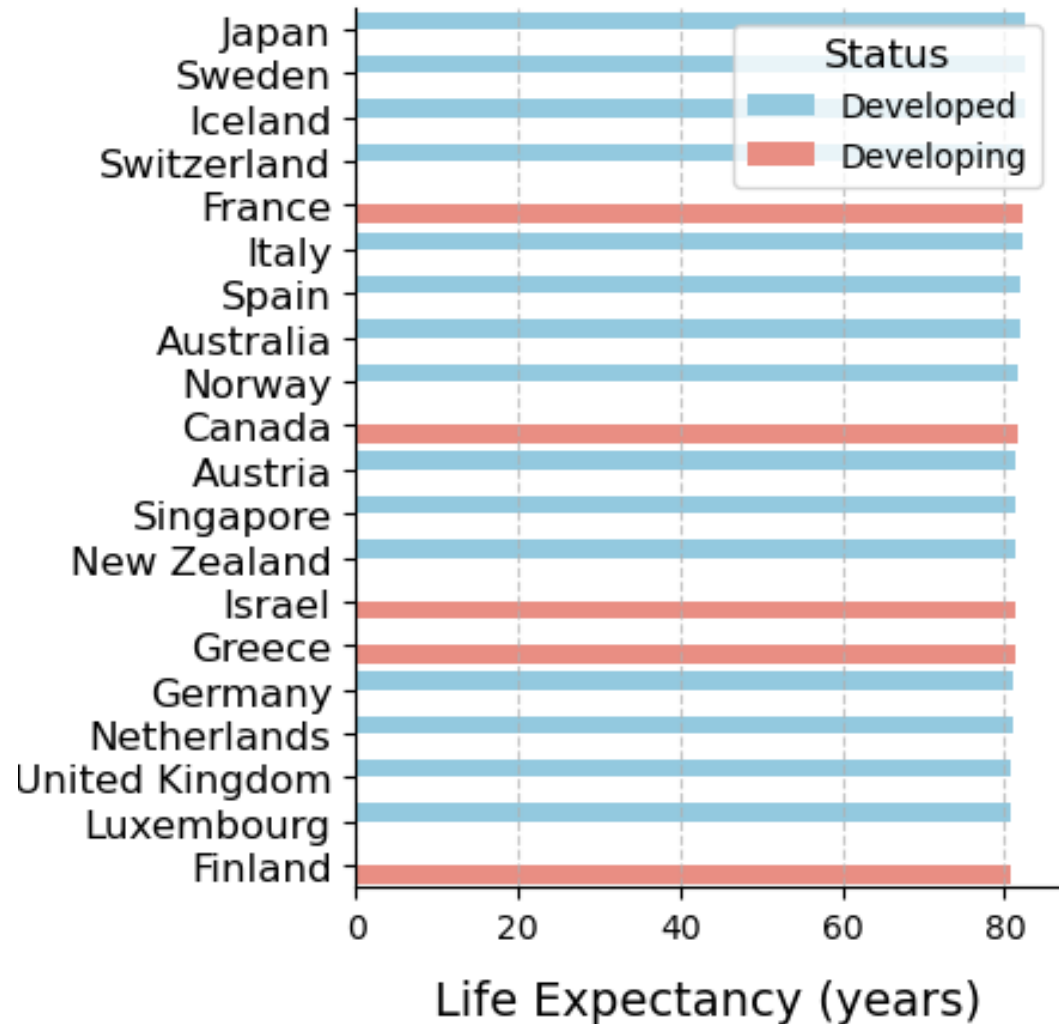
Methods & Visualisation



Results

- Significant Predictors: Higher adult mortality and HIV/AIDS prevalence negatively influenced life expectancy, while increased infant deaths showed a positive correlation.
- Positive Impact: Higher income composition and schooling levels positively affected life expectancy.
- Baseline Life Expectancy: The estimated baseline life expectancy was approximately 51 years.

Top 20 Countries by Life Expectancy



Conclusions & Next steps

Higher adult mortality and alcohol consumption were associated with reduced life expectancy, while increased infant deaths and higher income composition positively influenced it.

Future analysis could incorporate additional predictors such as activity, exercise, nutrition, sleep, and work environments to gain deeper insights into life expectancy trends.

Thank You!

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