

Analyzing the Relationship Between GNI per Capita and Life Expectancy in selected Countries

Overview

This project aims to analyze the relationship between GNI per capita, population, and life expectancy in these countries

Gapminder Datasets used for this Analysis

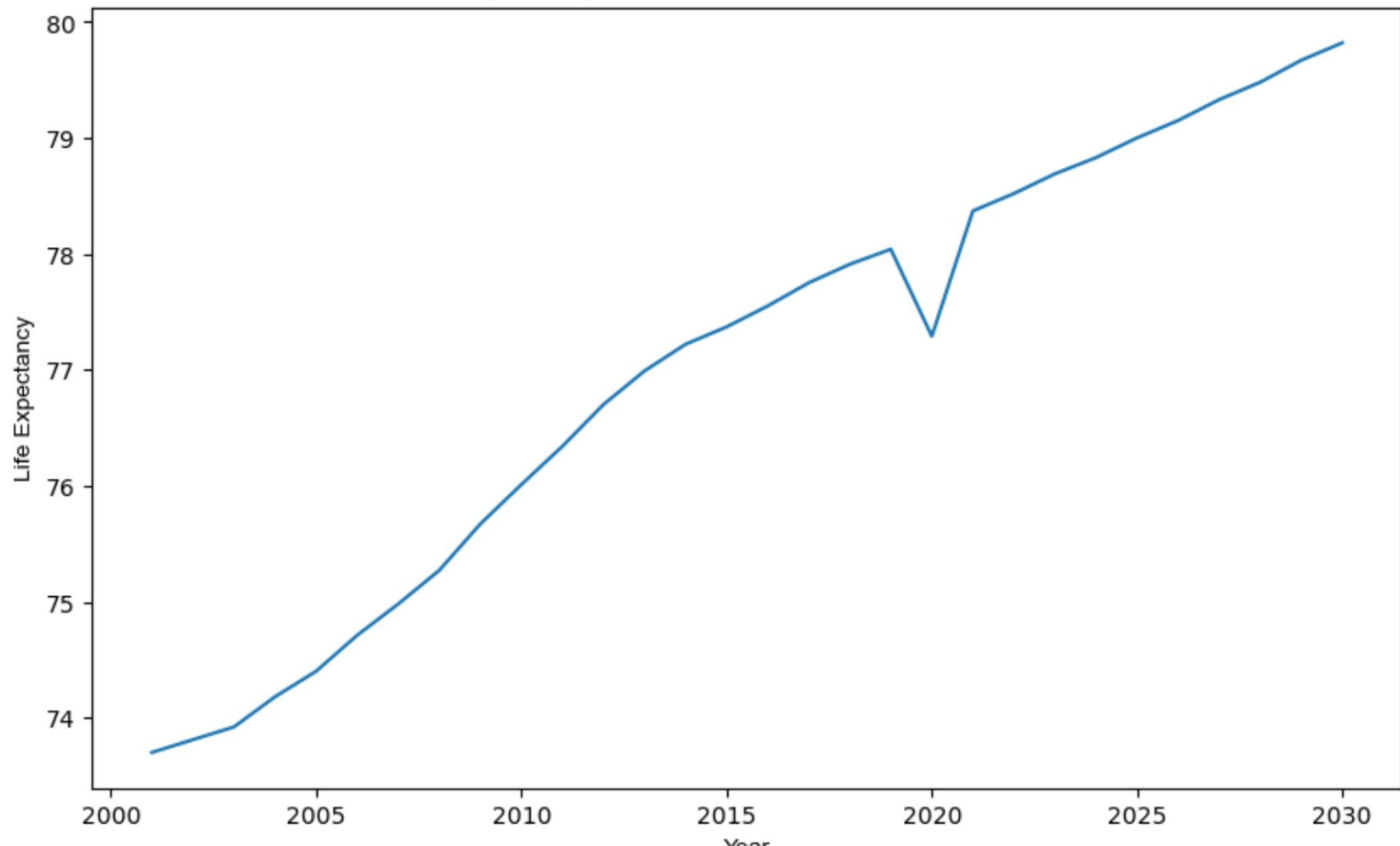
Datasources: Life Expectancy, Population and GNI Per Capita

Years: 2001 to 2030

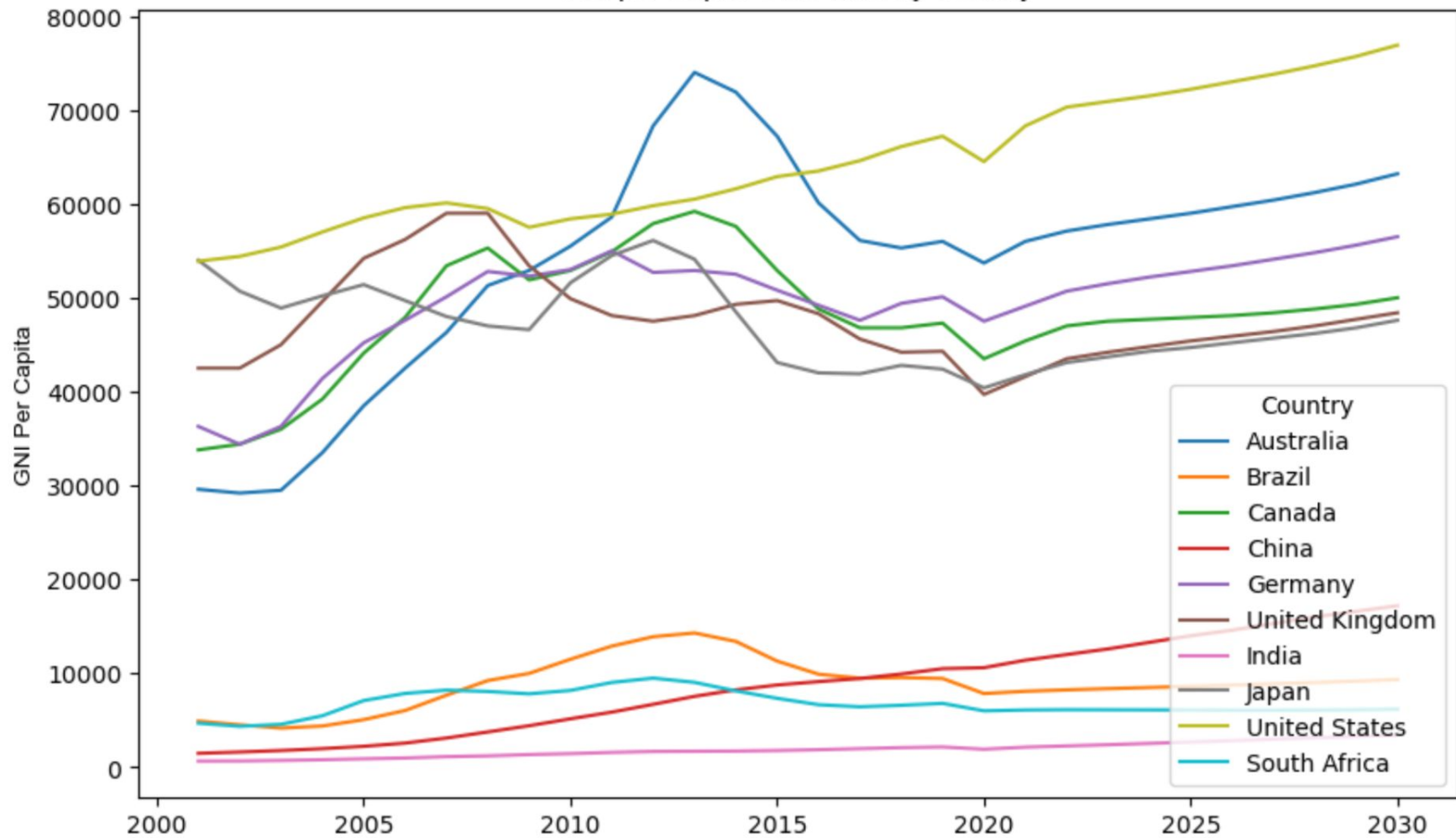
Countries: Canada, China, Australia, Germany, Japan, South Africa, United States, United Kingdom, India, Brazil.

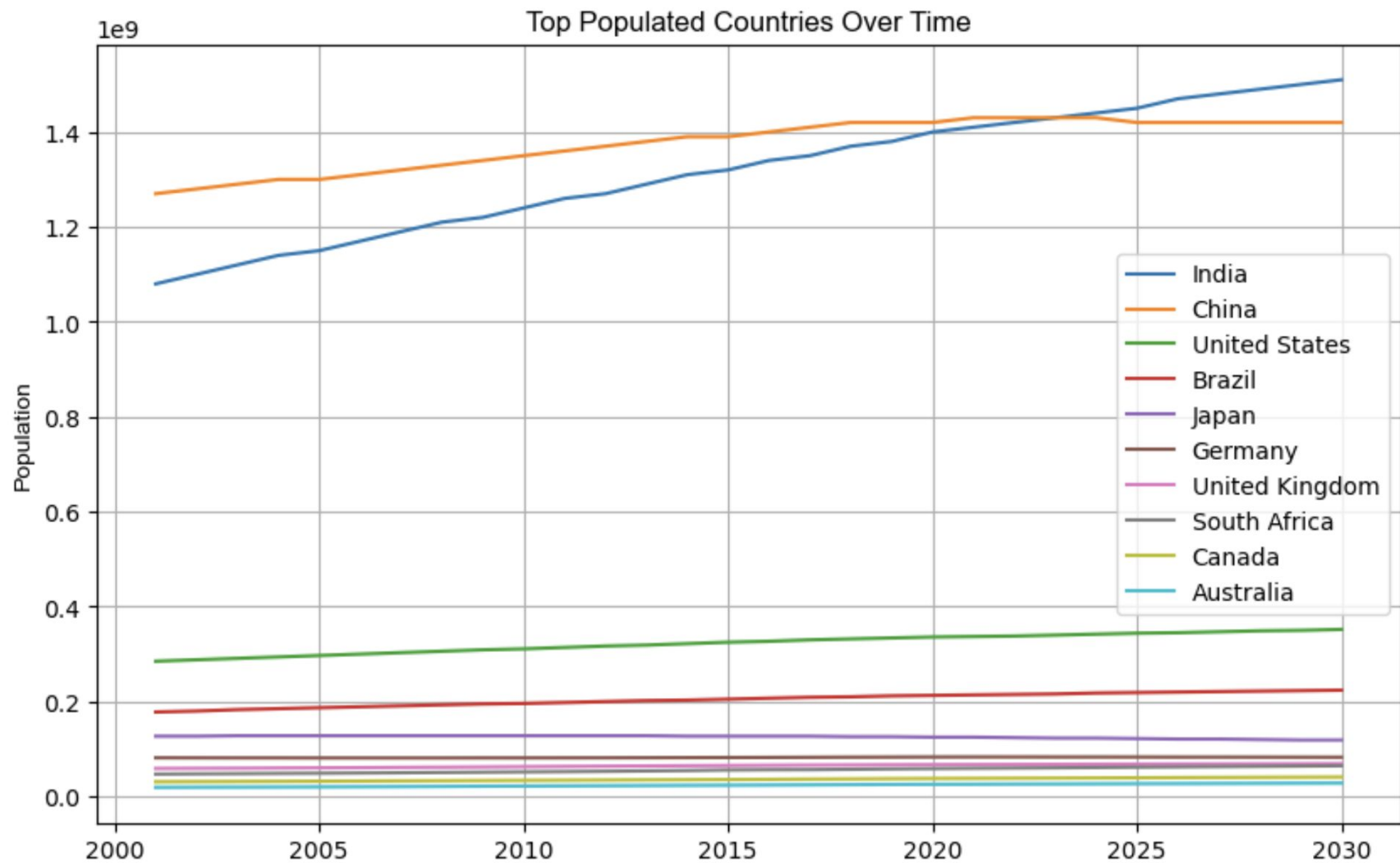
By examining data over time, the project will identify trends and correlations between economic factors (GNI per capita) , population projections and life expectancy outcomes.

Life Expectancy Trends: Growth Over the Last 30 Years

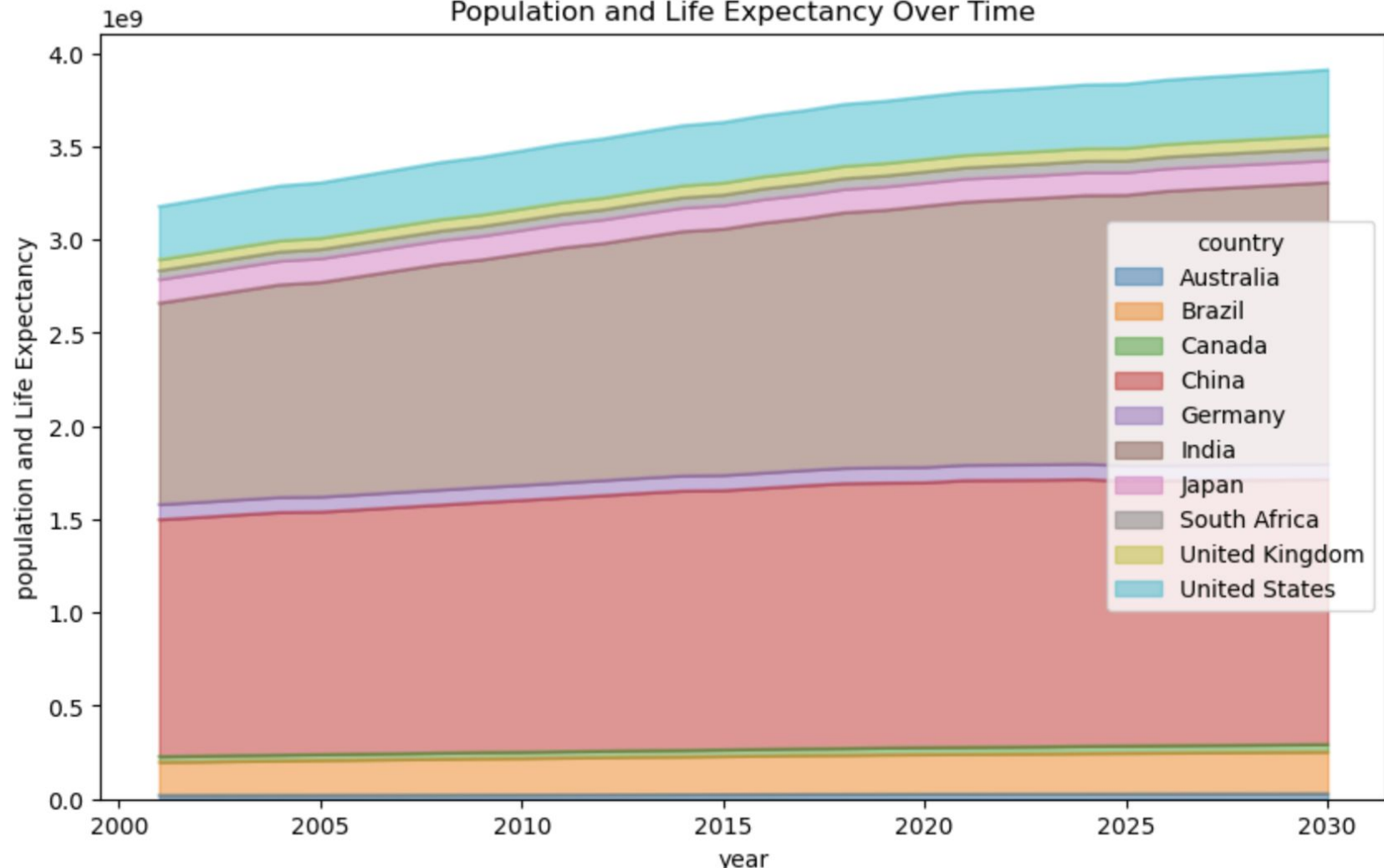


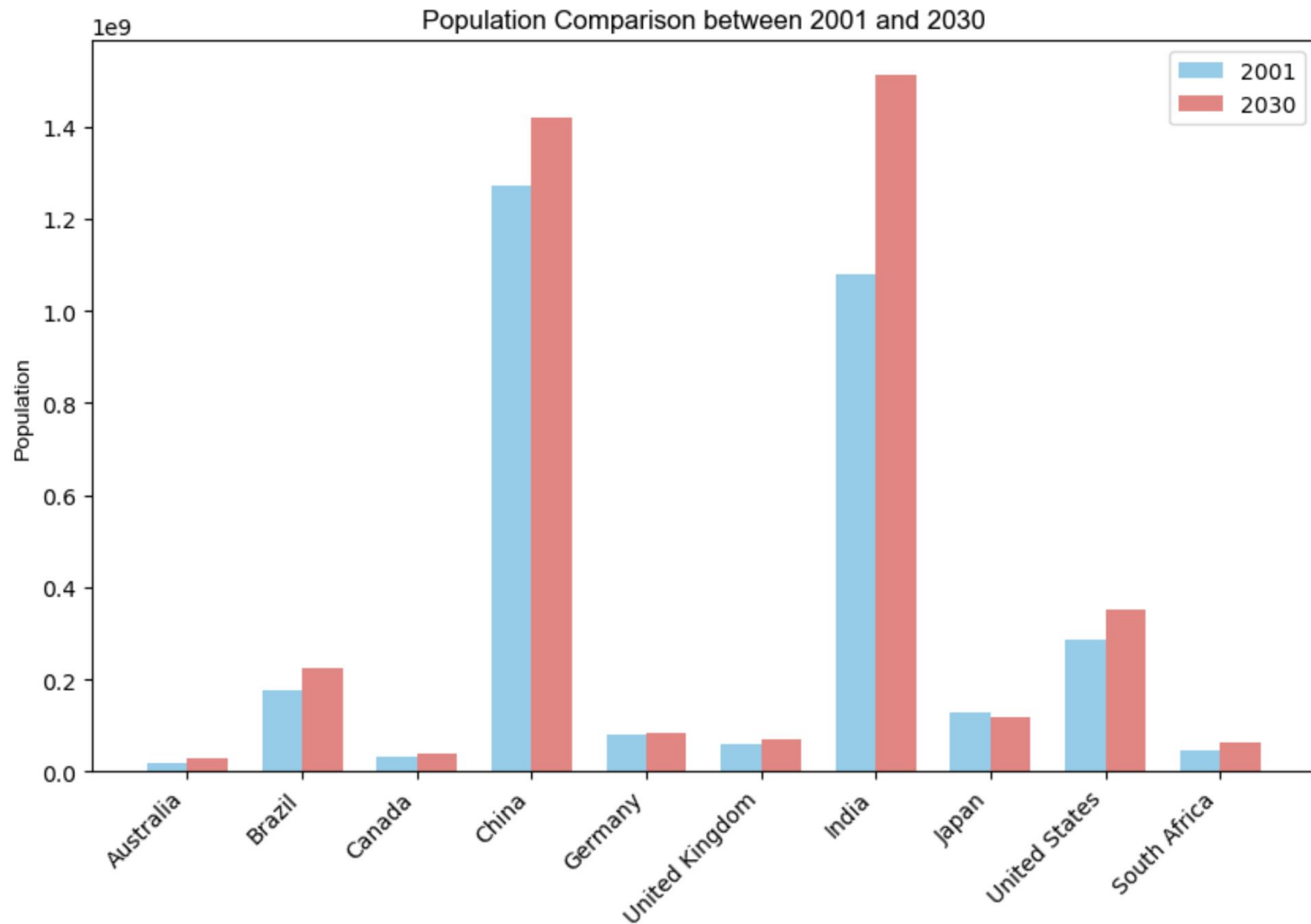
GNI per Capita Over Time by Country



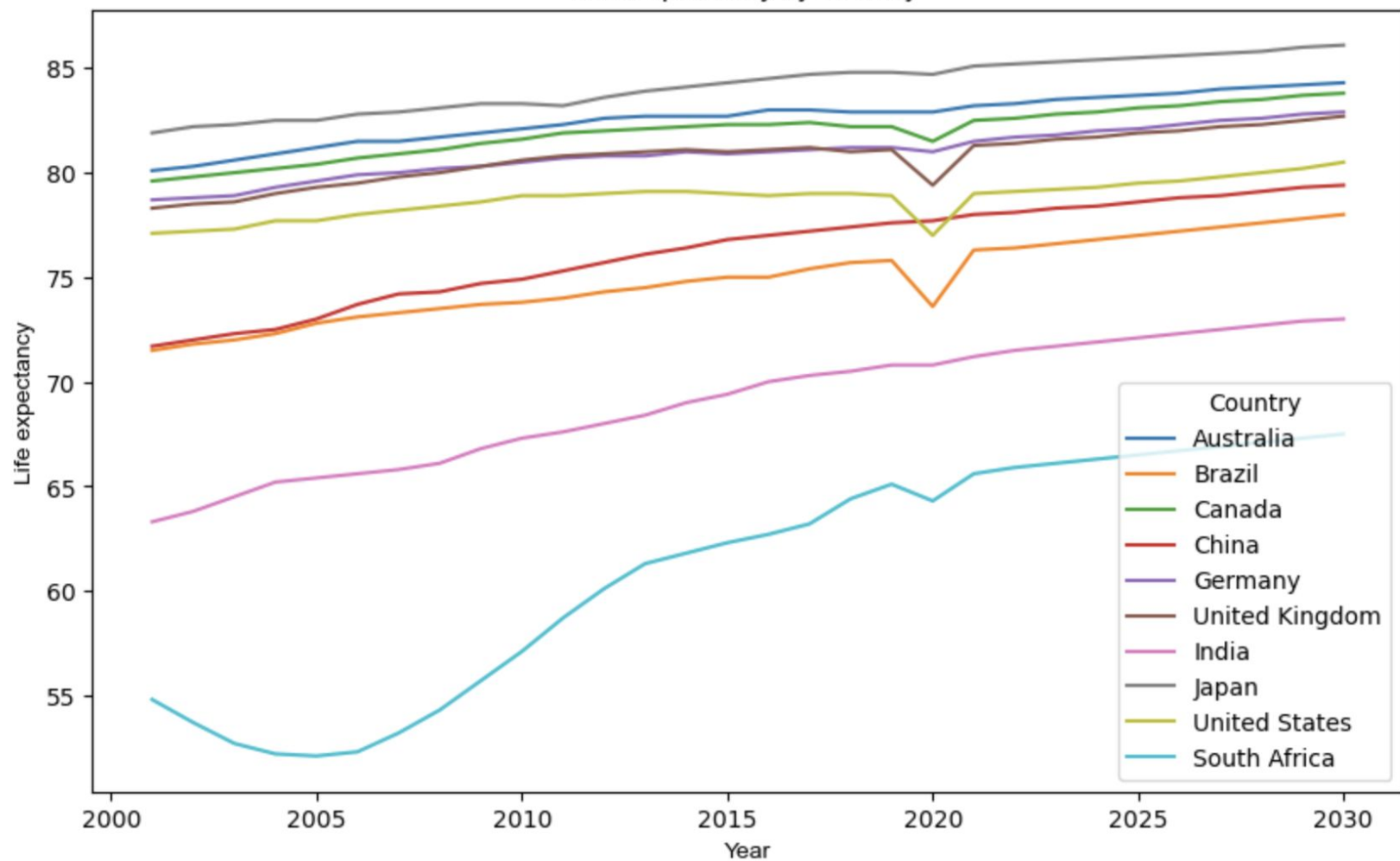


Population and Life Expectancy Over Time

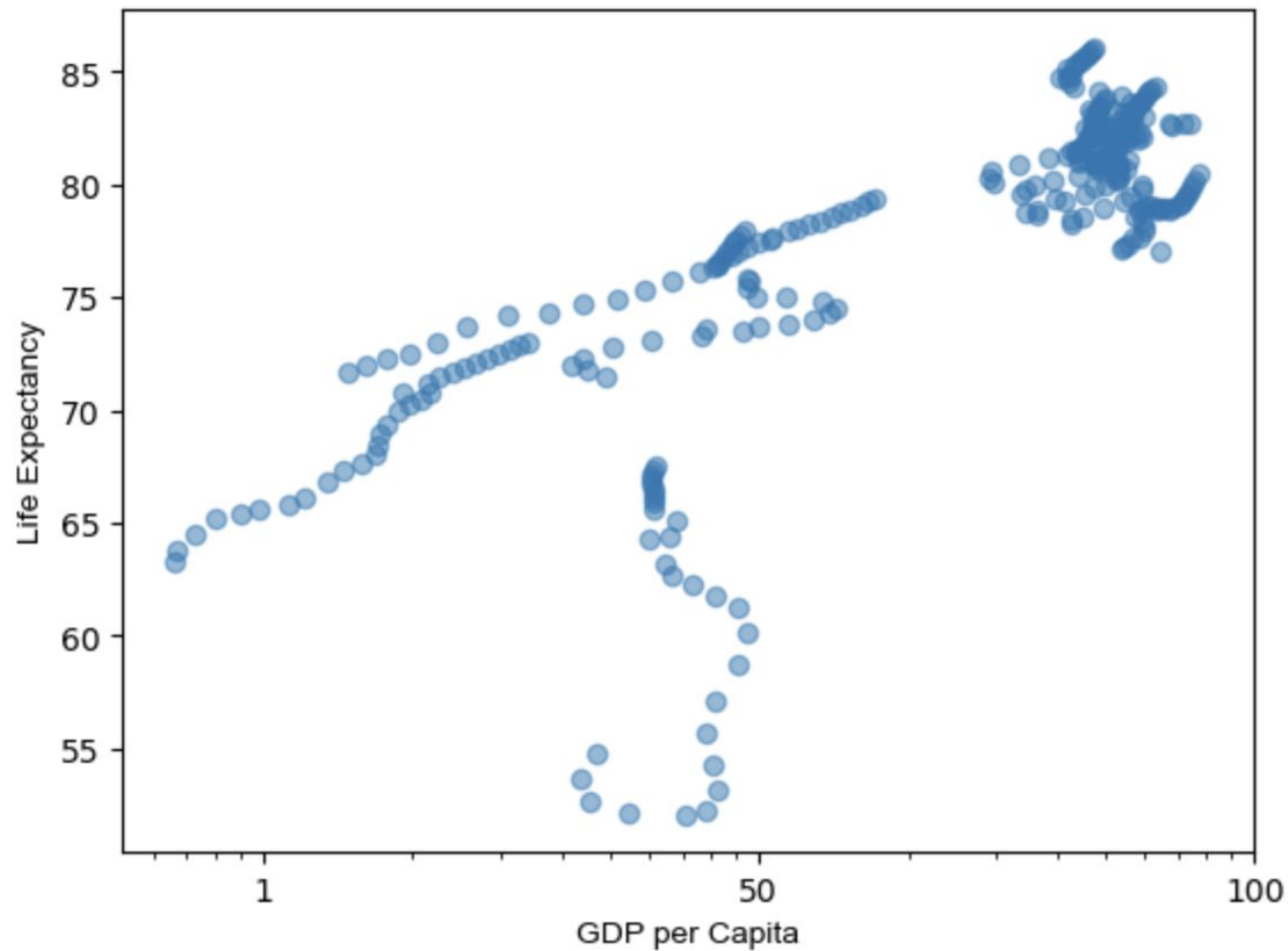




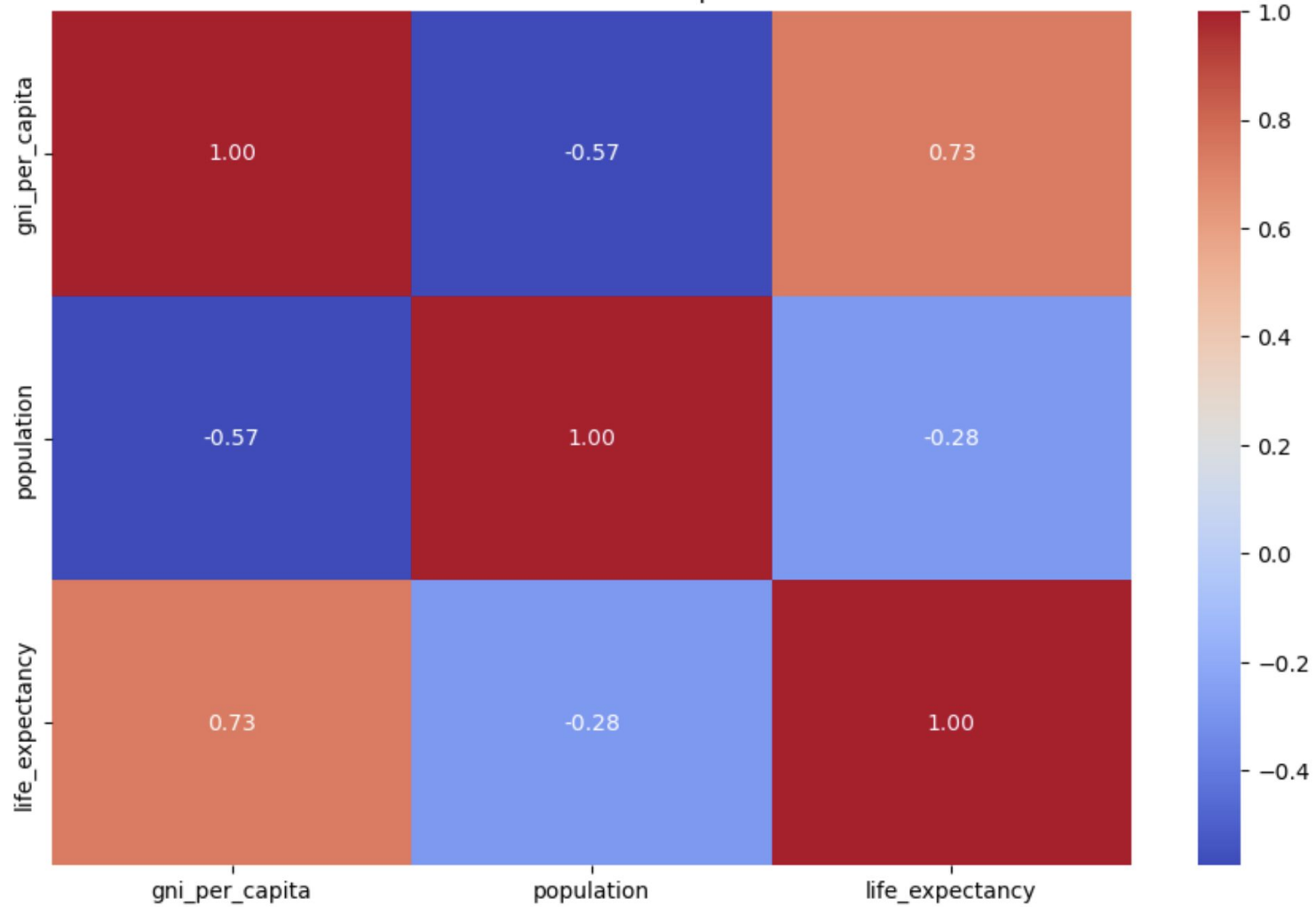
Life Expectancy by Country



Life Expectancy vs GDP Per Capita



Correlation Heatmap



Recommendations:

- Population graph shows steep increase in population in India and China over last 30 years and India's population will be projected to be top.
- Correlating between GNI Per Capita, Life Expectancy and Population there are few interesting observations:
- Higher GNA Per capita gives higher life expectancy. In other words, a positive correlation between GNA per capita and higher life expectancy.
- High population vs low GNI per capita shows negative correlation
- High population vs low life expectancy shows negative life expectancy
- Based on this observation listed down top 3 countries in each case:
- India, China followed by United States is considered a good market for consumer goods and in order to maintain good Life Expectancy and GNI Per Capita, population needs to be controlled.
- Countries like Japan, Australia and Canada has better life expectancy
- Countries like USA, Australia and Germany has better GNI Per Capita

Thank you