

What is the problem you want to solve?

There is no question that China is one of the most influential economies in the world. However, the country could face a major dilemma due to its demographic issue. Another country that faced a similar issue in Japan. The stagnation of Japan's economy since the 90s has been called the Lost Decade. One of the issues that compounded Japan's economic woe was the birthrate decline.

Thus, China could undergo a similar problem as Japan. Using Japan as a model, I would like to examine the future of China's economy and its relationship to the demographic issue. The time span I am looking at is 10 years since that's the length of economic stagnation Japan has endured.

Context

China is likely to go through a similar demographic challenge as Japan. Moreover, China still hasn't escaped the middle-income trap.

Criteria for success

Create a correct model for both Japan and China using population growth and GDP per capita growth. And measure how much China's economy will grow in the next 10 years.

Scope of solution space

The solution is not about solving China's demographic woe. But help investors and policymakers on the future of China's economy. Whether China's economy can endure the demographic situation will be crucial for the 2nd largest economy in the world.

Constraints

Language barriers for additional data.

Finding a reliable economic data from China.

Stakeholders

Investors and policymakers who are interested in the economic situation of China.

Data source

Chinese Population

<https://www.kaggle.com/datasets/concyclics/chinas-population-by-gender-and-urbanrural>

Japan's population

<https://www.kaggle.com/datasets/sawadatsuyoshi/japanese-population-year-prefecture-age-gender>

GDP

<https://www.kaggle.com/datasets/zgrcemta/world-gdpgdp-gdp-per-capita-and-annual-growths>

What is the problem you want to solve?

There is no question that China is one of the most influential economies in the world. However, the country could face a major dilemma due to its demographic issue. The problem is to determine if China is ready to handle its demographic issue and see if its economy can maintain steady growth in the next 10 years.