



DSA 6000

PROJECT PROPOSAL

GDP

Is there a secret sauce to having a strong GDP?
With emerging nations rapidly making their way to become "developed" nations,
this project dives into the numbers to search for the secret of these emerging
nations.

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Problem:

What affects GDP growth?

In recent years, many emerging nations like India and China have shocked the world by their GDP growth. At the same time, we can see the developed nations with a high GDP have low GDP growth. Considering they have established economies and strong GDPs, there must be a correlation between the well-developed nations with strong GDPs and emerging nations with massive GDP growths.

Questions:

What is it that the emerging nations are doing that makes their GDP grow so quickly?

What can other developing nations learn from these countries?

What did the nations with the strongest GDP do to get where they are now?

Is there a relationship between the emerging nations and countries with high GDP?

Overview:

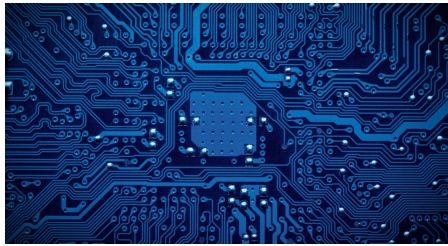
To find a correlation between these groups of countries we will narrow the scope of our research to 12 unique nations. Namely the G6 and BRICS + Mexico.

G6	BRICS + Mexico
U.S.A	Brazil
Japan	Russia
U.K	India
Italy	China
France	South Africa
Germany	Mexico

Although there are many political and social aspects that group these countries together as "G6" and "BRICS", our objective is to set aside these political affiliations and to simply observe the numbers. The grouping we have chosen is to have a varied sample for our research that spans the entire globe and covers all continents.

Analysis:

To determine what aspects of the economy and society affect GDP the most we will split the research into three.



Technological Growth – Jason



Advancements in Medicine – Dhruv



Government Expenditure – Alex

By segregating our models into three, we should find some correlation between the GDPs of the emerging nations and the developed nations. We hypothesize that the emerging nations are investing their time and effort into similar economic sectors, which is affecting their GDP. We will develop several models for the G6 and BRICS countries and find out if this is true.

Our analysis will consist of many different datasets from <http://www.gapminder.org/data/>. We have limited our research to 5 datasets per sector, and will develop models that compare the progress of each nation based on time.

Conclusion:

The ultimate goal of our research is to determine if there is a secret to GDP growth and overall national success. The important aspect of our research is the unbiased nature of numbers. The datasets that we will observe will not have political or racial bias, and give us a numerical answer.

G6 & BRICS + Mexico

- Emerging
- Developed

