**ADS1 - Assignment 1: Visualization**

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Data Source - World Bank Open Data: - <https://databank.worldbank.org/source/education-statistics-%5E-all-indicators>

Repository Link: - <https://github.com/Harsha-hathamunage/ADS1---Assignment-1-Visualization>

# Visualization 1: Evolution of Annual Population Growth Rate Percentage in South Asian Countries

Chart, line chart

Description automatically generated

The plot depicts the change in population growth in South Asia over time for each country. Each line represents a country and shows the population growth rate for each year. According to the plot,

* Afghanistan, Pakistan, and Nepal had higher population growth rates than other countries in the early 1990s.Their growth rates, however, have slowed over time and are now comparable to those of other countries.
* Throughout the years, the Maldives had the highest population growth rate in the region, peaking in the mid-2010s.
* Bhutan’s population growth rate has been inconsistent, but it has been consistently low in recent years.
* Population growth in India and Sri Lanka has been moderate over the years.
* India’s population growth rate has slowed slightly in recent years, while Sri Lanka’s rate has remained relatively stable.
* Bangladesh’s population growth rate has slowed over time, and it is now one of the region’s lowest.

# Visualization 2: Population Growth Comparison Between India and Maldives

Chart, bar chart

Description automatically generated

The bar plot is appropriate for this data because we are comparing two discrete variables(countries)to a continuous variable (population growth rate), and a bar plot is a common way to visualize such data.

Here, we can see that both countries’ population growth rates have been declining over time, though the exact rate of decline varies from year to year. Despite the fact that India is the most populated country in South Asia and the Maldives’ population growth rate has been higher than India’s for the majority of the years, with a few exceptions.

# Visualization 3: Population Growth of South Asia in 2018

Chart, pie chart

Description automatically generatedChart, pie chart

Description automatically generated

The pie chart shows which countries experienced the greatest population growth during the year, as well as the relative contribution of each country to total population growth.

In 2015, Maldives had the highest population growth, while Nepal had the lowest.However,in 2018,Bhutan had the lowest population growth, while the Maldives had the highest, and Nepal’s rate has improved since 2015.All of the other countries show little change in 2018 compared to 2015