

A comparative analysis of India's performance in the Olympics against other countries

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Abstract

This study conducts a comprehensive analysis of India's performance in the Olympics and compares it to similarly sized economies, emerging markets, and select South American countries. By analyzing historical medal data, including adjustments for team events, and identifying key trends and patterns in India's Olympic achievements, Furthermore, the study investigates the most dominant countries in both the Winter and Summer Olympics. Lastly, we delve into a detailed examination of a selected favorite Olympic event, uncovering historical dominance and interesting statistics. This study provides actionable insights and recommendations for enhancing India's future Olympic performance.

1. Introduction

Over the years, Olympic games have gained traction, with some countries dominating medal holdings while others are still behind. In terms of medal total counts, India has been doing quite well in the past relative to its same-size country counterparts, as well as in the emerging market economy group. As a result, an analysis of its past performance in the summer and winter Olympics provides an interesting perspective, as the country is awaiting the upcoming games.

2. India Summer medals Compared to other Similar sized economy Counterparts

The first plot shows the GDP per capita of India and countries with GDP that are around the same size. I selected countries within the range of 1500 to 2000 GDP per capita. The table indicates that only three countries within this threshold have medal counts, and India tops them all. The graph that follows indicates that India's medal counts for all the categories—silver, bronze, and gold—are high compared to these economies.

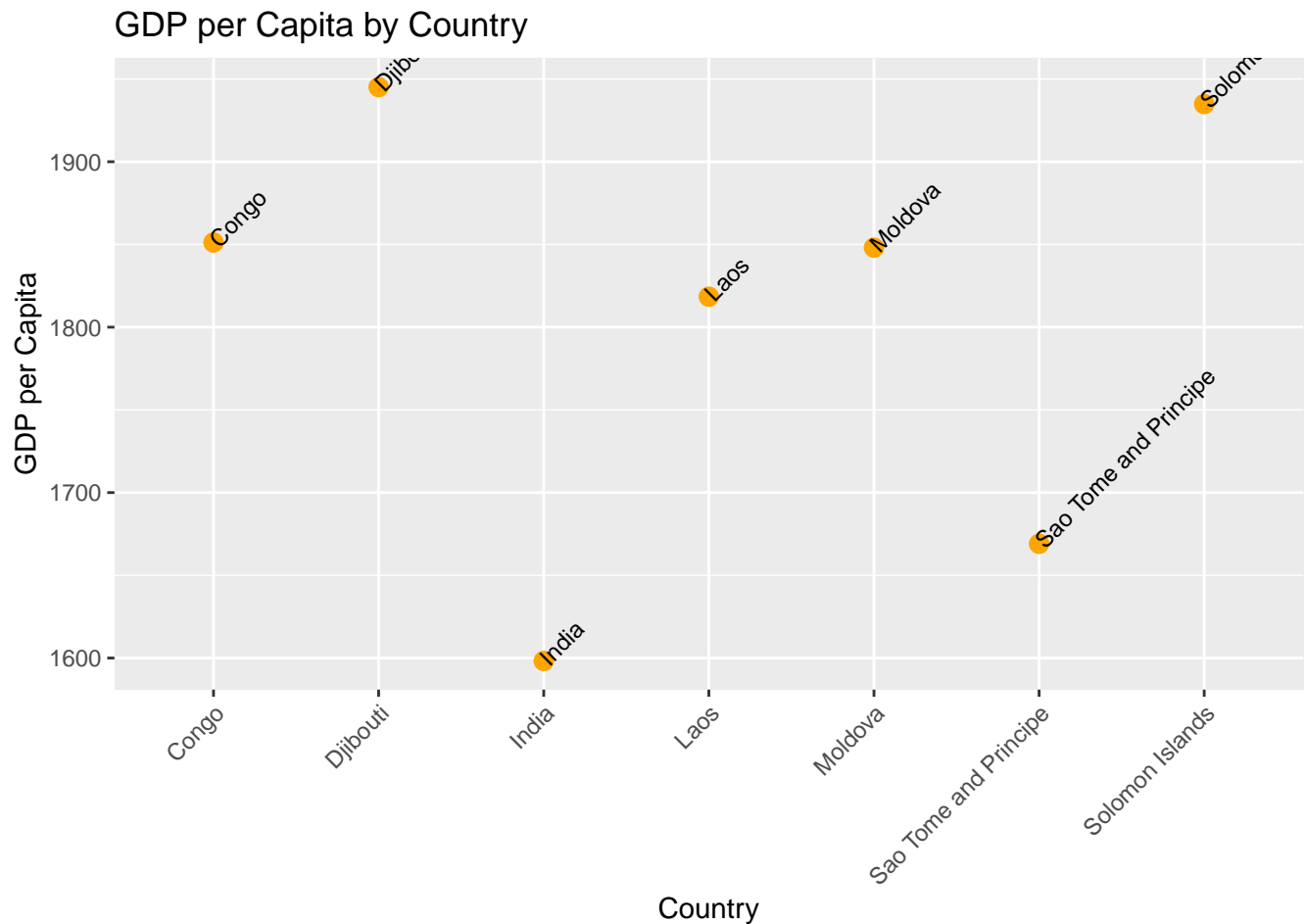


Figure 2.1: India Vs Similar Sized Economies.

```
## # A tibble: 3 x 4
## # Groups:   Country [3]
##   Country Bronze Silver Gold
##   <chr>      <int> <int> <int>
## 1 DJI         1     0     0
## 2 IND        38    18   128
```

3 MDA 3 3 0

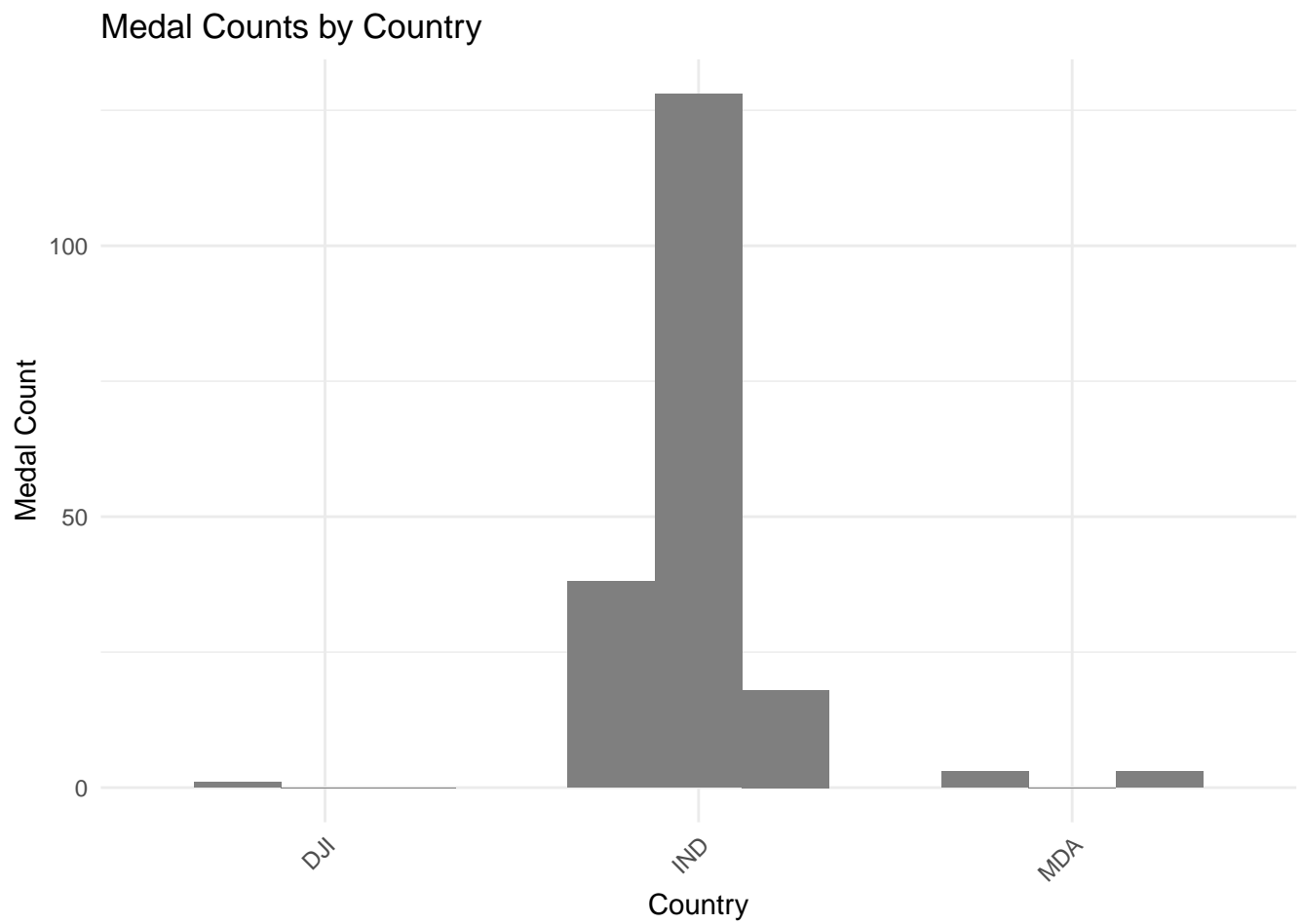


Figure 2.2: India Vs Similar Sized Economies.

3. Medal Counts by Emerging Countries and Medal Type

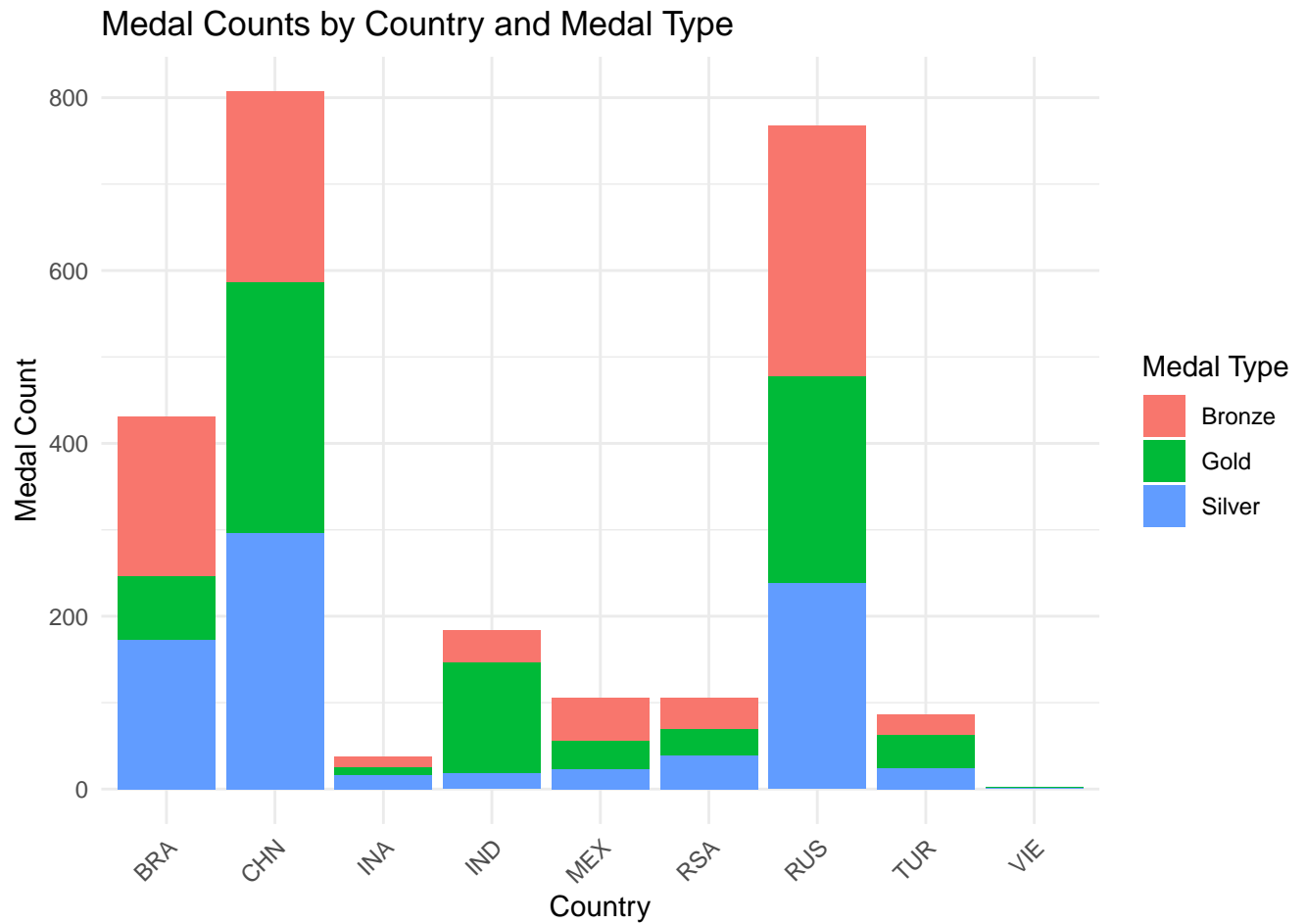


Figure 3.1: Medal Counts by Emerging Countries.

4. Medal Counts of India VS South American Economies

The stacked bar chart shows India's performance compared to many other South American countries. India is one of the top three performers in terms of medals and gold leads, while Brazil has the highest total medal count, followed by Argentina.

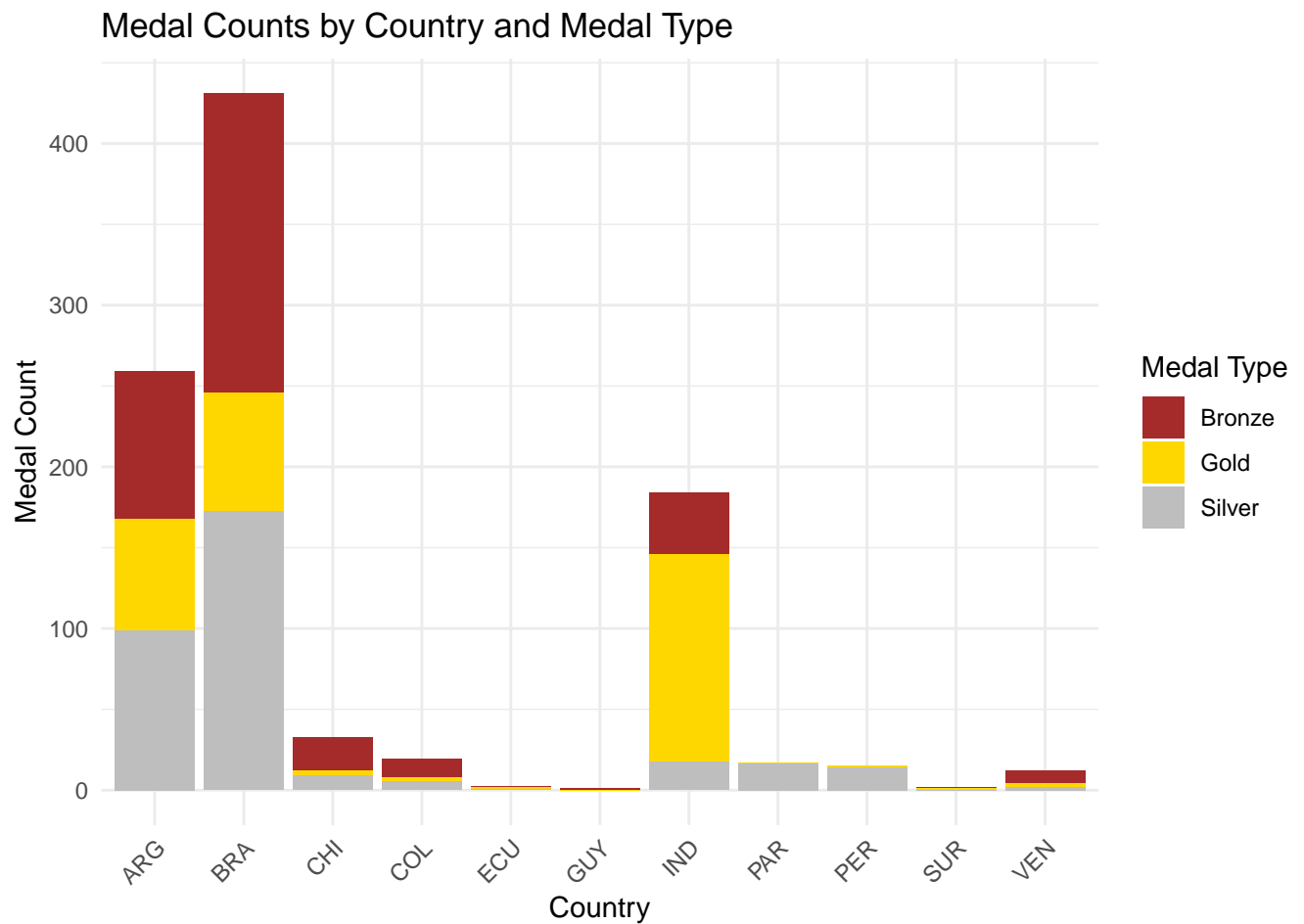


Figure 4.1: Medal Counts of India VS South American Economies.

5. Comparison of Top 10 Countries in terms of Summer and Winter medals

The bar chart below shows the medal counts of the top 10 medal holders across the globe. Both the summer and winter Olympics exhibit a similar trend. The United States is consistently dominating both the summer and winter Olympics. We can also observe intense competition in the winter Olympics, with many countries having a narrow medal count gap. However, the summer Olympics have more medals compared to the winter Olympics.

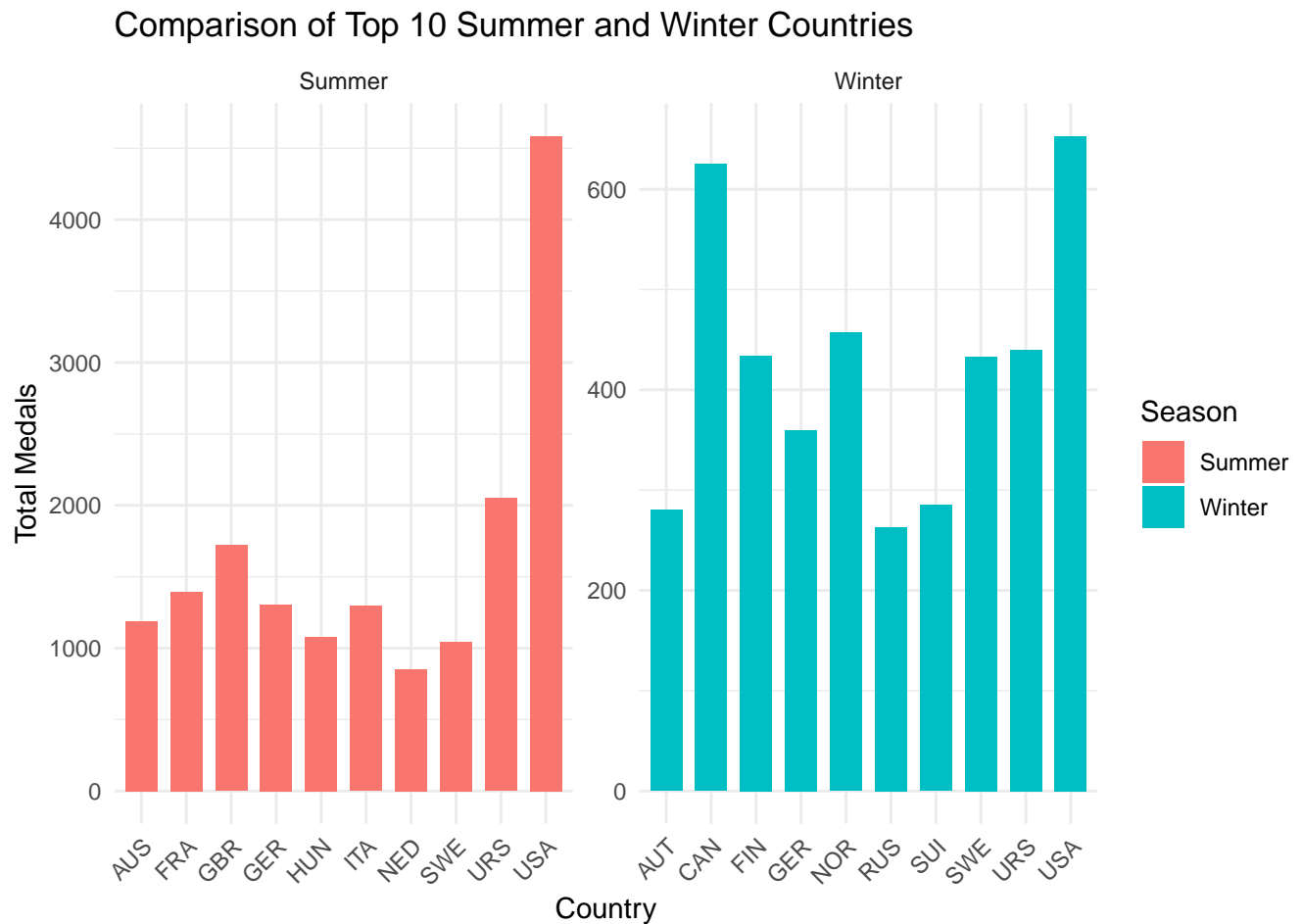


Figure 5.1: Comparison of Top 10 Countries in terms of Summer and Winter medals.