From Doses to Data: A Visualization of Global COVID-19 Vaccination Trends

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Objectives

To analyze global COVID-19 vaccination data using publicly available datasets

Methodology

- Dataset Source :Our World in Data
- Data cleaning involved filtering for relevant columns, removing incomplete entries, and keeping only the most recent record per country.
- Aggregated non-country entries were excluded using ISO codes
- Created visualizations using Python, Matplotlib, and Folium

Visualization

Fig1:The choropleth Map visualizes the vaccination distribution by country, with darker shades indicating higher numbers of people vaccinated

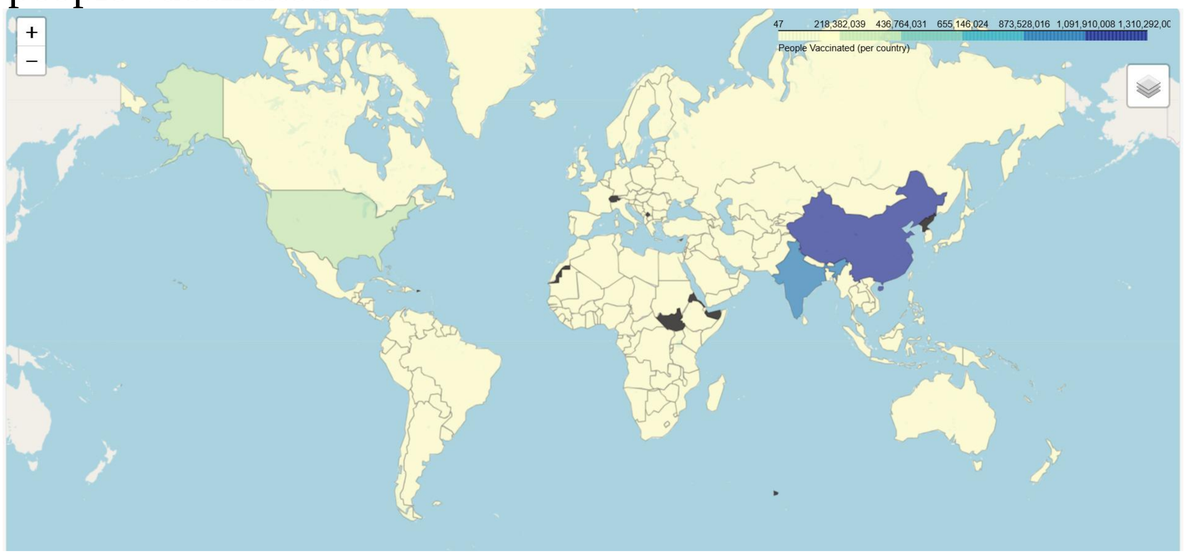
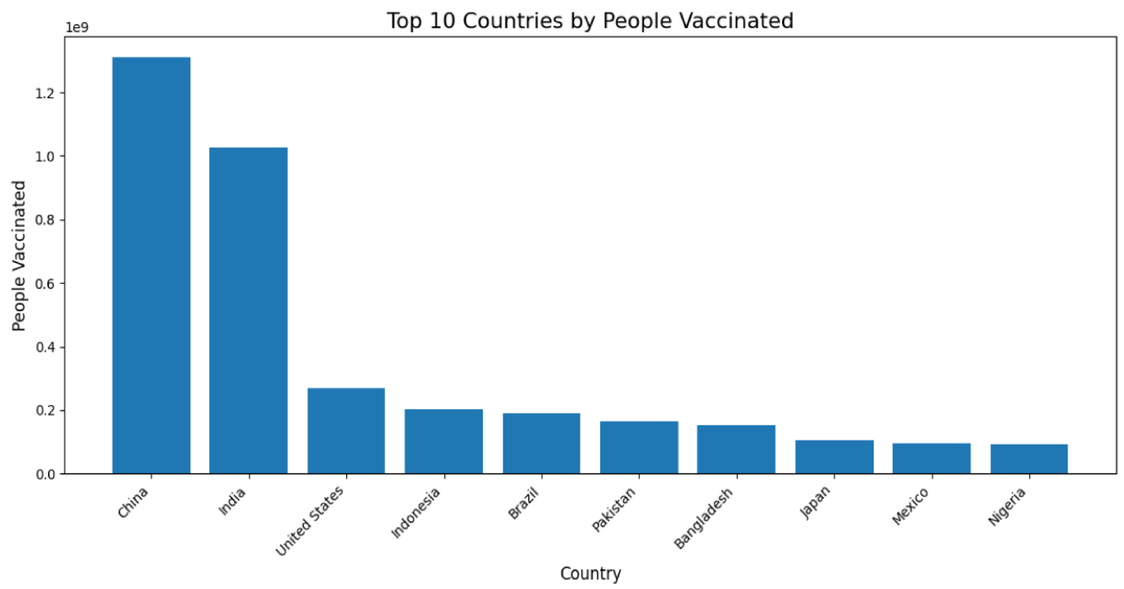


Fig2:The bar chart focuses on the top 10 countries with the highest total number of individuals vaccinated



Conclusion

Based on the current data, countries like China, India, and the United States lead in the total number of people vaccinated. However, the pace of vaccination varies widely by region. This analysis provides a snapshot of global efforts and can help inform further research or policy planning. Future steps may include normalizing data by population size or analyzing booster trends.

Further Information