

Power BI - Project Report

Covid-19 Vaccination ***Analysis***

By

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Project Insight:

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Aim:

To analyse Covid-19 vaccination data of peoples in all the country & to provide a better solution in improvising the prevention.

Introduction:

The COVID-19 outbreak has brought significant attention to the healthcare sector in recent times, and it has changed the concept of safety in every aspect of our lives.

Social distancing is an effective method for reducing the spread of coronavirus. Safety measures such as wearing masks, washing hands regularly, and staying careful regarding intimacy are currently very important.

However, these can only reduce the spread of coronavirus, not eradicate it completely. Here, vaccination came into light as the only solution that could fight most effectively against coronavirus and probably eradicate it.

Rigorous tests were conducted with the first mRNA vaccines to be introduced; more than 40,000 people participated in a Pfizer vaccine trial and 30,000 in a Moderna vaccine trial. The average efficacy rate of the vaccines in both trials was approximately 94%, and there were no deaths in either of them.

Problem Statement:

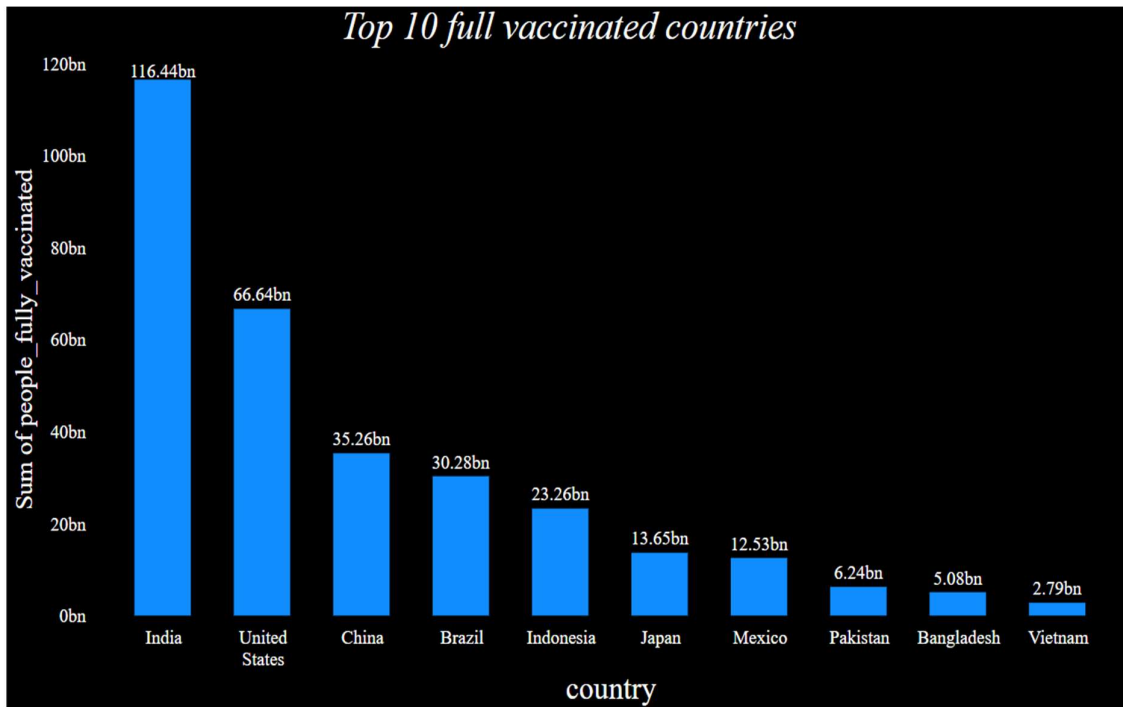
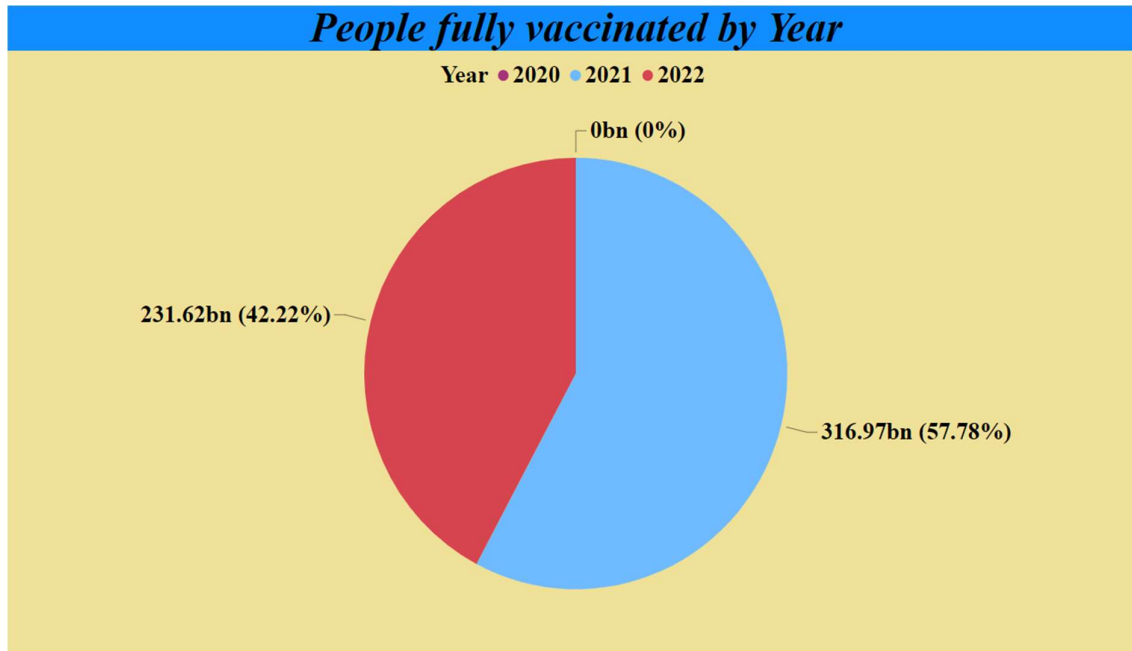
- To find how many peoples are vaccinated and fully vaccinated.
- Top 15 countries with full vaccination.
- Least 20 countries which are vaccinated to be strictly monitored.

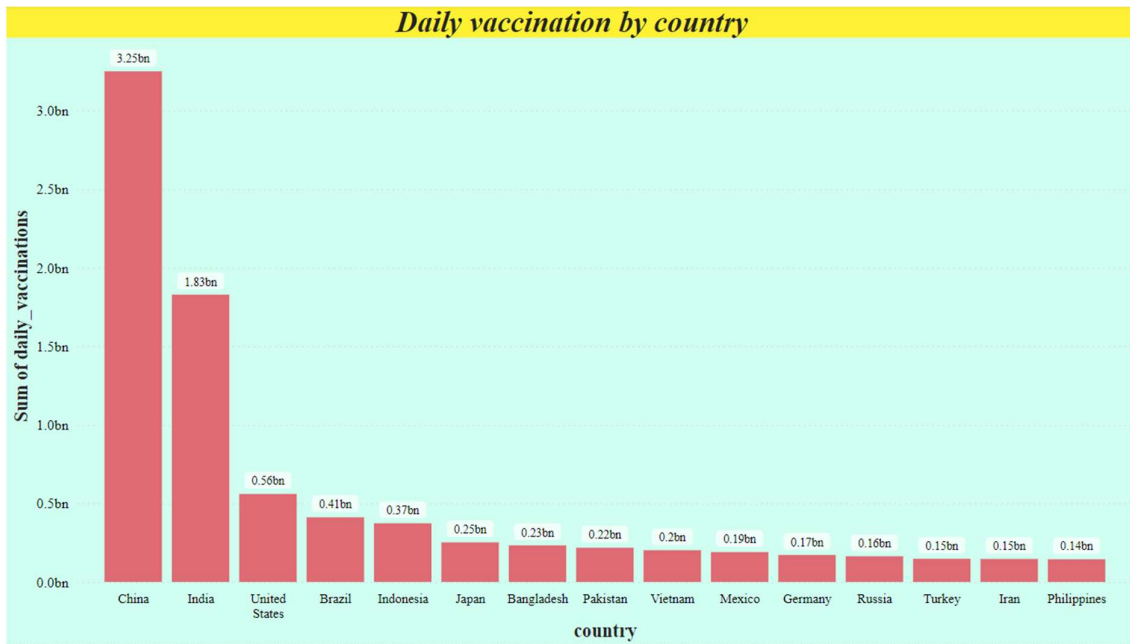
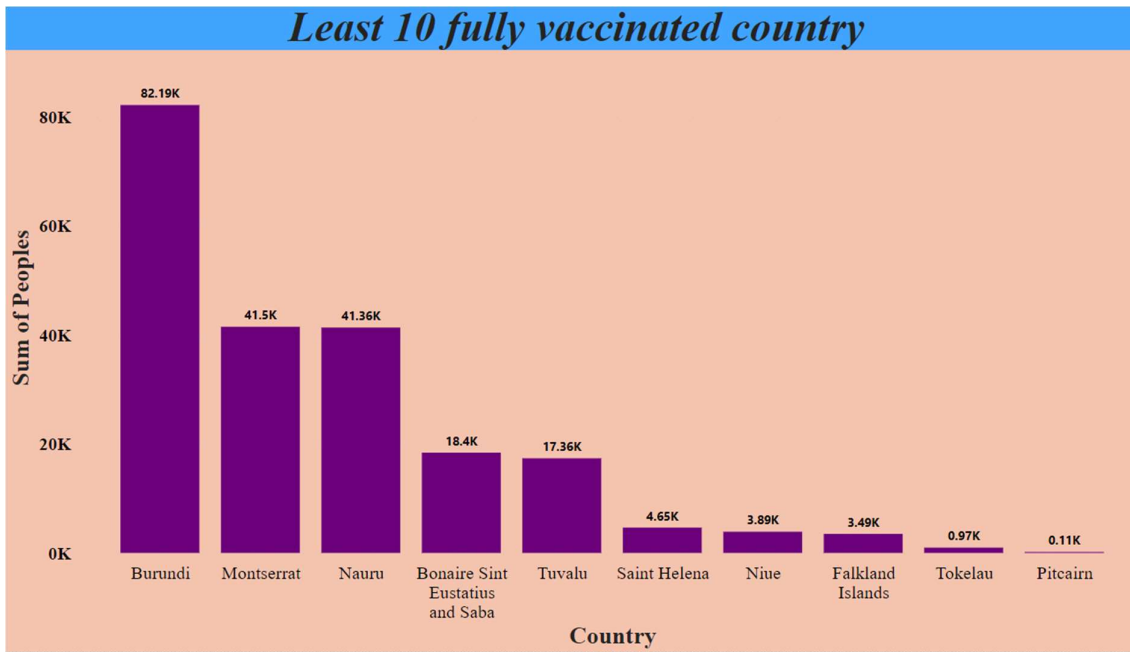
Methodology:

➤ **Data Pre-processing / Cleaning:**

The given dataset consists of null values which is replaced by 0.

Analysis:





Overall Analysis

223

Count of country

548.59bn

Sum of people_fully_vaccinated

731.11bn

Sum of people_vaccinated

84

Count of vaccines

81

Count of source_name

11.32bn

Sum of daily_vaccinations

2.0029T

Sum of total_vaccinations

119

Count of source_website

Insights:

- In 2020 – 0 billion, 2021 – 316.97 billion and 2022 – 231.62 billion people were vaccinated.
- India, US, China, Brazil, Indonesia, Japan, Mexico, Pakistan, Bangladesh, Vietnam were top 10 countries got fully vaccinated.
- Burundi, Montserrat, Nauru, Bonaire Sint Eustatius and Saba, Tuvalu, Saint Helena, Niue, Falkland Islands, Tokelau, Pitcairn were least vaccinated countries.
- China, India, US, Brazil, Indonesia, Japan, Bangladesh, Pakistan, Vietnam, Mexico, Germany, Russia, Turkey, Iran, Philippines were the countries with good daily vaccination rate.

Recommendations:

- The least vaccinated countries should be more preventive & to increase the vaccination rating on daily basis to prevent the spread of virus.
- Average vaccinated countries should take a step high to get into safer region by spreading the news of how a vaccine can protect people & shouldn't get back to the least vaccinated countries.
- The countries with higher vaccinated peoples should be aware that the virus should not spread again in their country.
- Precautions like maintain social distancing, wearing mask, wash hands using sanitizer or antibacterial washes, etc.

Conclusion:

Many people have decided to vaccinate themselves, and a large number are still confused; many are frightened and many refuse to be vaccinated. This research will help health researchers obtain proper knowledge of the issues regarding the vaccination process.

Companies who produce vaccines, governments, health ministries of different countries, or policymakers in the health sector, such as WHO, can have a proper idea about whether their vaccines are effective or not and the percentage of their effectiveness.

It's the responsibility of the Governments to create an awareness among peoples getting vaccinated & also to invent quality vaccines which boost the immunity for humans.