

COVID – 19 Vaccinations Trend Analysis

Aim –

This Project mainly aims to find out the trend of the vaccinations around the world for the prevention of the Covid 19 pandemic and how much has been achieved so far.

Introduction –

The COVID 19 pandemic caused due to the Corona virus devastated the world by causing several fatalities around the world. This virus originated in Wuhan, China in 2019 and was later spread throughout the world due to human contact in one way or the other. The disease showed symptoms as basic as mild fever and cold but also caused life threatening symptoms like breathing problems caused by damage to the lungs. As this virus was new to the world and there was no vaccine or cure to it at the initial period there were several deaths around the world. The countries around the world were forced to shut themselves to others in order to avoid the further spread of the virus and people were stuck inside their houses and faced many issues with their finances, mental health etc., and felt like animals in a cage. An effort was made to find a cure or vaccine by several health organizations to bring a

In later stages of 2020 several experimental vaccines were developed and was administered to humans. The efforts were successful as the vaccines were helpful in reducing the affects the virus and even if people were infected, they were not in any life threatening situation and escaped the illness having only minor symptoms.

Many countries later developed their own vaccines and also helped other countries without the resources by providing them with vaccines developed.

Problem Statements –

1. In this project we have analyzed the top 10 fully vaccinated countries
2. We have analyzed the top 5 vaccinated countries
3. We have analyzed the top 5 daily vaccinating countries
4. We have analyzed the total number of daily vaccinations, people who have fully vaccinated, people who is vaccinated
5. We have analyzed year wise daily vaccinating details, fully vaccinated people details, vaccinated people details
6. We have analyzed the country wise vaccines and iso_code details.

Methodology –

Step 1 –

Data Importing –

In power BI desktop with the help of the get data option import the CSV data which is named as country_vaccinations and clicked load option.

Step 2 –

Data Cleaning –

After loading the data and after analyzing the data | understood that there are 86512 rows and 15 columns. And in that some of the columns contained null values I have replaced the null values by 0 with the use of replace functions and started working on the data.

Step 3 –

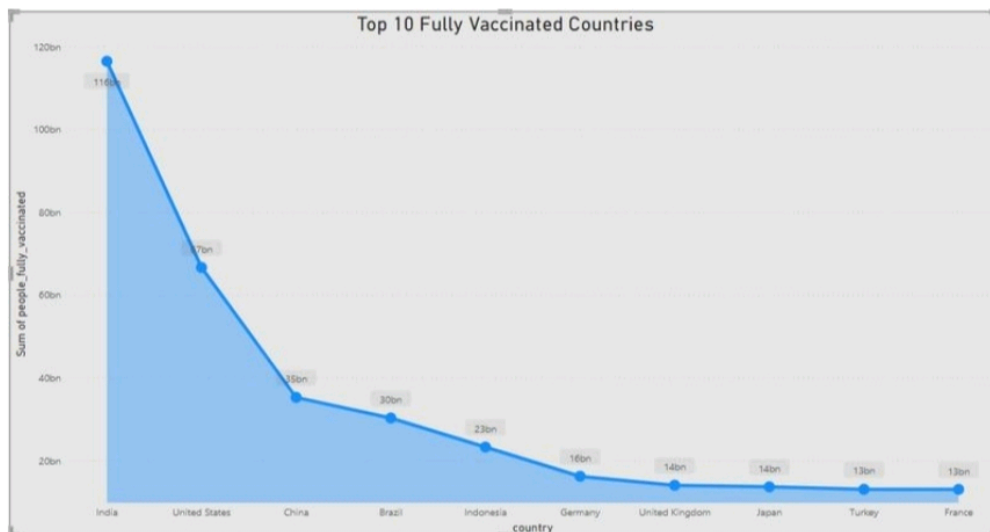
Visualizations –

In visualization part with the help of power BI desktop software I have used different kinds of charts, graphs, cards and table to display the data in the format which will be easy to understand.

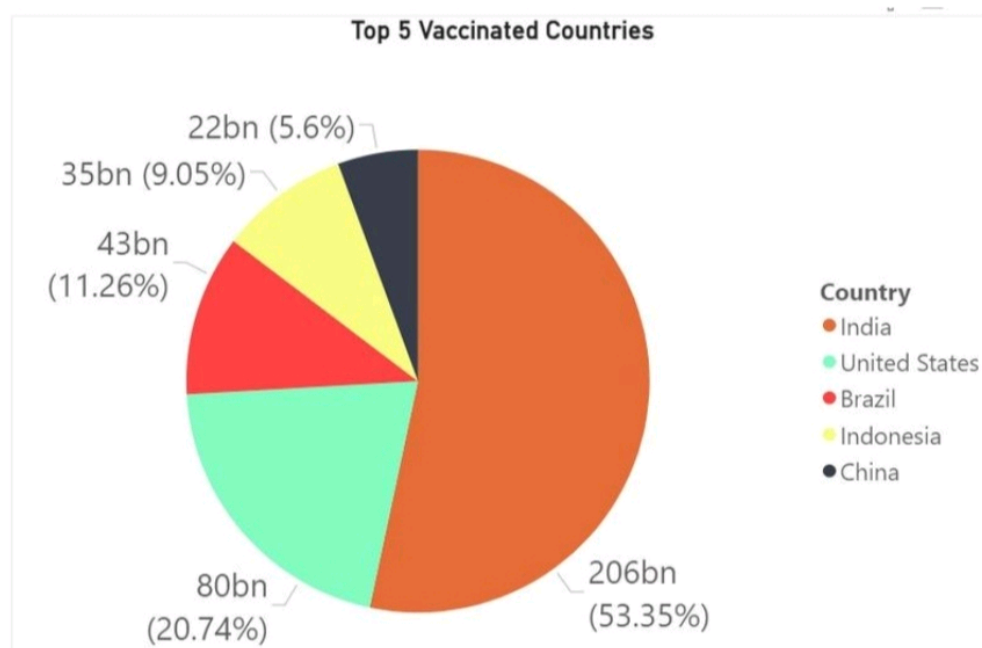
Analysis –

In the analysis part first | have analyzed the top 10 fully vaccinated countries by using area chart and have used the filter option to find the top countries and the result

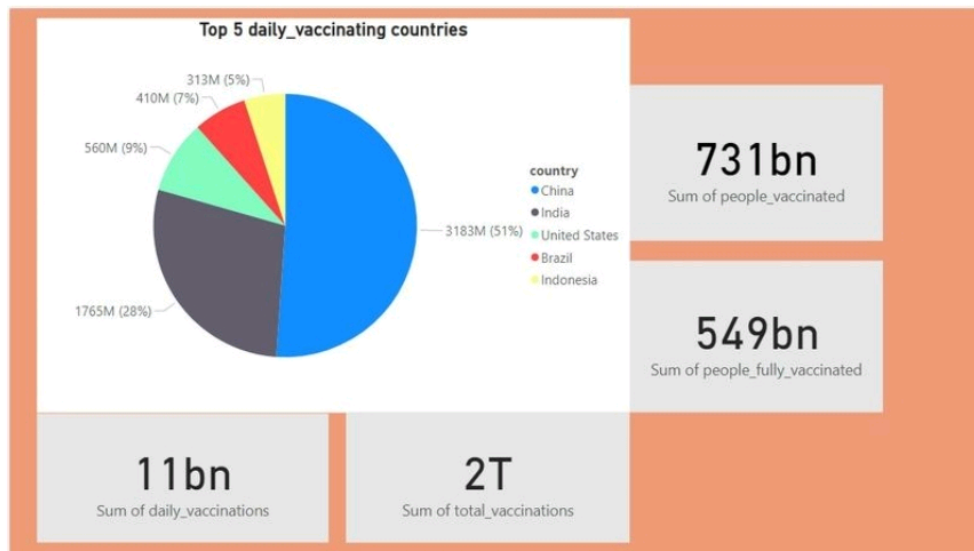
From the below image we can able to come to know that India is the top country in terms full vaccination with 116 billion , followed by united states of America and china with 67 billion and 35 billion respectively.



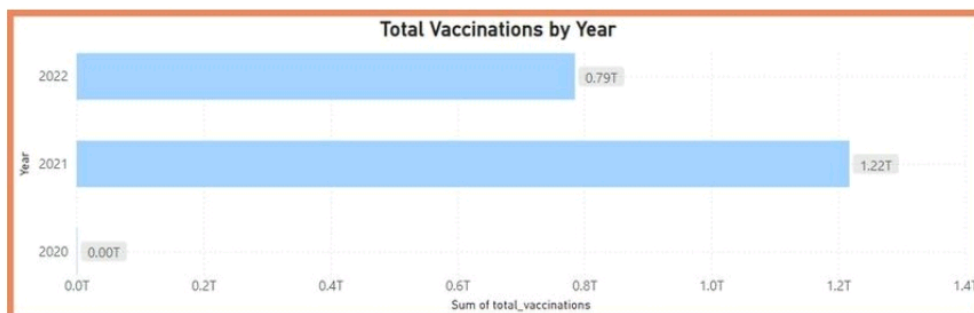
In the second analysis we have analyzed the top 5 vaccinated countries with the help of pie chart and used filter option to find the top countries and with that we came to know that India is the top country with more number of vaccinated peoples followed by United States of America and Brazil.



In the third analysis we have analyzed the top 5 country with daily vaccinations with the help of pie chart and used filter option to find the top country with daily vaccinations and with that we came to know that China is the top country with more number of vaccinations followed by India and United States of America.

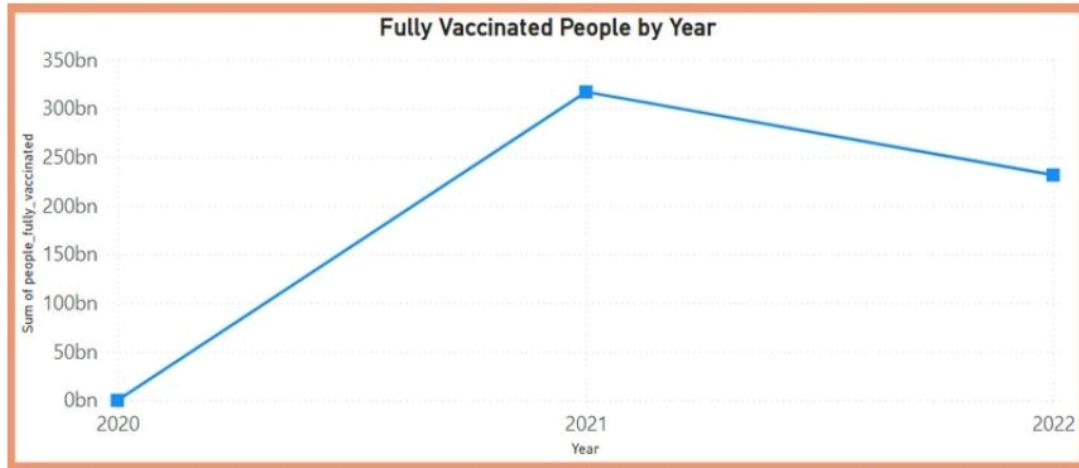


From the above images we have come to know about the statics of daily vaccination, people who have fully vaccinated and people who is vaccinated and I used cards for this to display the value.



Above image have shown that daily vaccinating details year wise and here we can conclude that 2021 is a year which having maximum daily vaccinating details and I have used bar chart.

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Above image have shown that fully vaccinating details year wise and here we can conclude that 2021 is a year which is having maximum number fully vaccinated peoples and I have used Line chart.

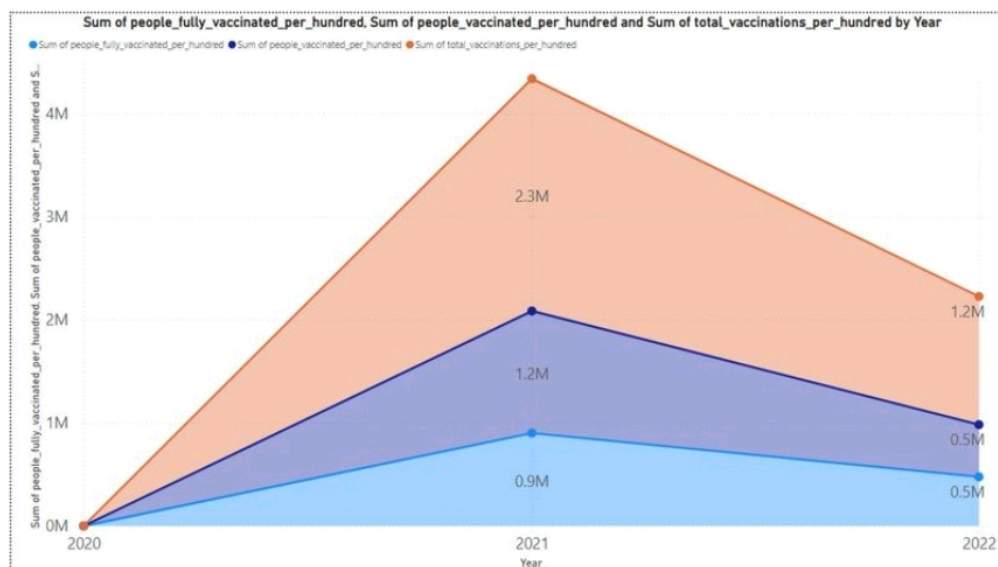
country	vaccines	iso_code
Afghanistan	Johnson&Johnson, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing	AFG
Albania	Oxford/AstraZeneca, Pfizer/BioNTech, Sinovac, Sputnik V	ALB
Algeria	Oxford/AstraZeneca, Sinopharm/Beijing, Sinovac, Sputnik V	DZA
Andorra	Moderna, Oxford/AstraZeneca, Pfizer/BioNTech	AND
Angola	Oxford/AstraZeneca	AGO
Anguilla	Oxford/AstraZeneca, Pfizer/BioNTech	AIA
Antigua and Barbuda	Oxford/AstraZeneca, Pfizer/BioNTech, Sputnik V	ATG
Argentina	CanSino, Moderna, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing, Sputnik V	ARG
Armenia	Moderna, Oxford/AstraZeneca, Sinopharm/Beijing, Sinovac, Sputnik V	ARM
Aruba	Pfizer/BioNTech	ABW
Australia	Moderna, Oxford/AstraZeneca, Pfizer/BioNTech	AUS
Austria	Johnson&Johnson, Moderna, Novavax, Oxford/AstraZeneca, Pfizer/BioNTech	AUT
Azerbaijan	Oxford/AstraZeneca, Pfizer/BioNTech, Sinovac, Sputnik V	AZE
Bahamas	Johnson&Johnson, Oxford/AstraZeneca, Pfizer/BioNTech	BHS
Bahrain	Johnson&Johnson, Moderna, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing, Sputnik Light, Sputnik V	BHR
Bangladesh	Johnson&Johnson, Moderna, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing, Sinovac	BGD
Barbados	Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing	BRB
Belarus	Sinopharm/Beijing, Sputnik V	BLR
Belgium	Johnson&Johnson, Moderna, Oxford/AstraZeneca, Pfizer/BioNTech	BEL
Belize	Johnson&Johnson, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing	BLZ
Benin	Johnson&Johnson, Oxford/AstraZeneca, Pfizer/BioNTech, Sinovac	BEN
Bermuda	Oxford/AstraZeneca, Pfizer/BioNTech	BMU
Bhutan	Moderna, Oxford/AstraZeneca, Pfizer/BioNTech, Sinopharm/Beijing	BTN

From the above chart I have used table to understand the vaccine details and iso_code details country wise.

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From the above images we have analyzed the daily vaccinations per million, people who have fully vaccinated per hundred, people who have vaccinated per hundred, total vaccinations per hundred.



From the above image we came to know about people who have vaccinated per hundred, people who have fully vaccinated per hundred, total vaccinated per hundred and we came to know about that 2021 was the peak year in all the 3 cases.

Insights –

- Here we analyzed the top 10 fully vaccinated countries in which India tops the list which indicates that people in the country were showing lots of interests to get vaccinated.
- And also analyzed top 5 vaccinated countries here also India tops the list.
- And then analyzed top 5 daily vaccinating countries and here China tops the list.
- And also we analyse the sum of daily vaccinating details, fully vaccinating and vaccinating people details.
- And our year wise analyse shows that 2021 was the peak year for every vaccination details.

Recommendations –

- We should collect day to day reports and we should update our records daily to get more accurate details.
- So that we can move forward with more vaccination to the right country which needs the most.

Conclusions –

In this dataset we came to know that the vaccination process in every country was going in good pace that indicates we can have control of this disease very soon all over the world.