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COVID-19 Vaccination Drive Comparison

INDIA VS USA

Submitted To:

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ABSTRACT

In the past couple of months, many countries have strategically geared up to carry out extensive covid19 vaccination drive. In this report we will be seeing a comparison between India and USA drive results. The comparison is based on parameters like daily vaccination count, total vaccination count, number of people vaccinated per million and percentages of people in different vaccination stage.

Vaccination stage refers to the two vaccination shots a person is supposed to receive.

DATASET DESCRIPTION

Dataset Link: <https://www.kaggle.com/gpreda/covid-world-vaccination-progress>

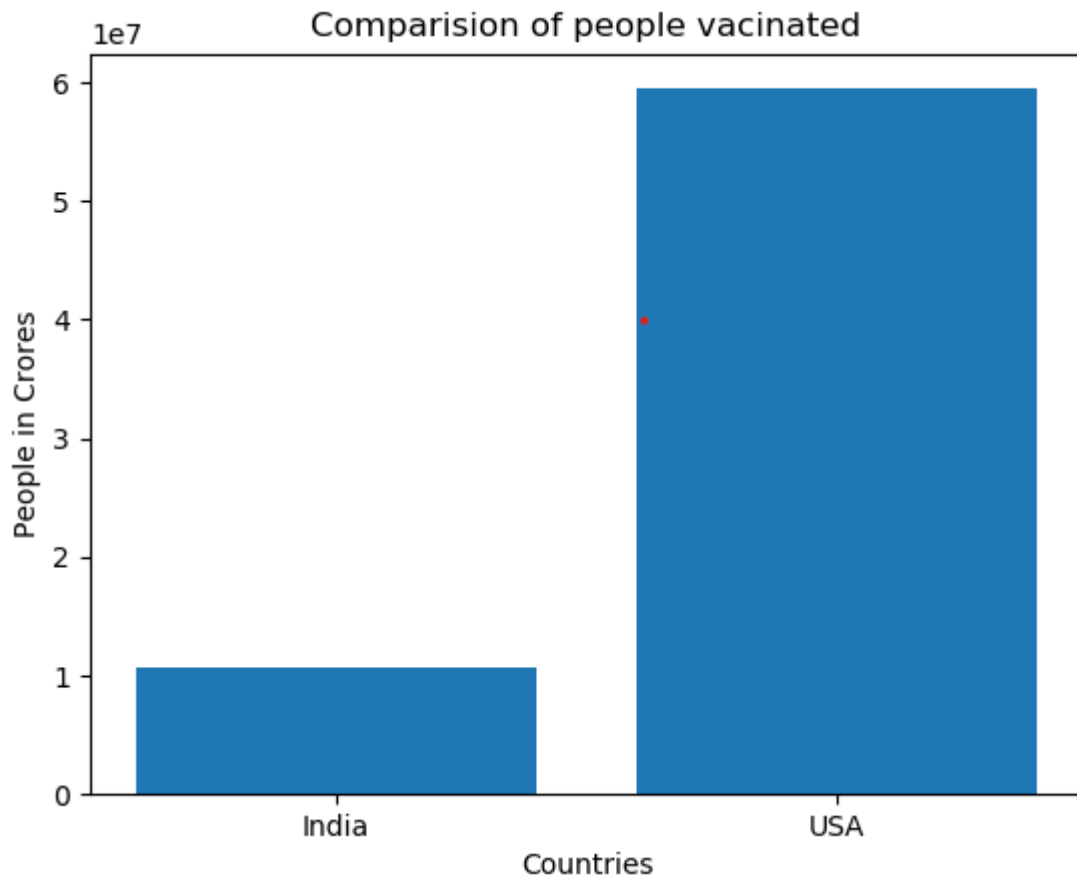
The data contains the following information:

- Country- this is the country for which the vaccination information is provided;
- Country ISO Code - ISO code for the country;
- Date - date for the data entry; for some of the dates we have only the daily vaccinations, for others, only the (cumulative) total;
- Total number of vaccinations - this is the absolute number of total immunizations in the country;
- Total number of people vaccinated - a person, depending on the immunization scheme, will receive one or more (typically 2) vaccines; at a certain moment, the number of vaccinations might be larger than the number of people;

- Total number of people fully vaccinated - this is the number of people that received the entire set of immunization according to the immunization scheme (typically 2); at a certain moment in time, there might be a certain number of people that received one vaccine and another number (smaller) of people that received all vaccines in the scheme;
- Daily vaccinations (raw) - for a certain data entry, the number of vaccinations for that date/country;
- Daily vaccinations - for a certain data entry, the number of vaccinations for that date/country;
- Total vaccinations per hundred - ratio (in percent) between vaccination number and total population up to the date in the country;
- Total number of people vaccinated per hundred - ratio (in percent) between population immunized and total population up to the date in the country;
- Total number of people fully vaccinated per hundred - ratio (in percent) between population fully immunized and total population up to the date in the country;
- Number of vaccinations per day - number of daily vaccinations for that day and country;
- Daily vaccinations per million - ratio (in ppm) between vaccination number and total population for the current date in the country;
- Vaccines used in the country - total number of vaccines used in the country (up to date);
- Source name - source of the information (national authority, international organization, local organization etc.);
- Source website - website of the source of information;

COMPARISONS

- Total Vaccination Count

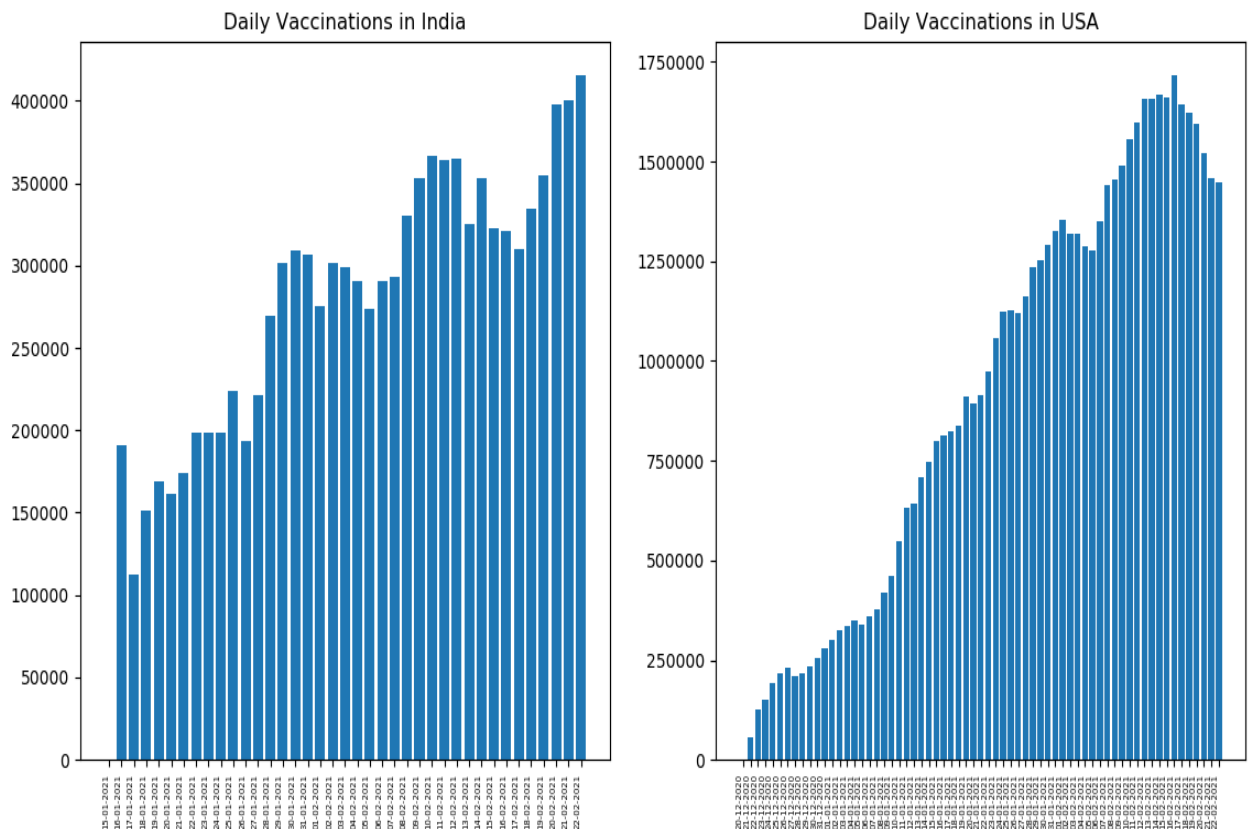


This graph provides the total count of people vaccinated in India and USA.

Number of people vaccinated in India = 1,07,14,863

Number of people vaccinated in USA = 5,94,73,012

- **Daily Vaccination Count**



This graph provides the daily vaccination count of each country.

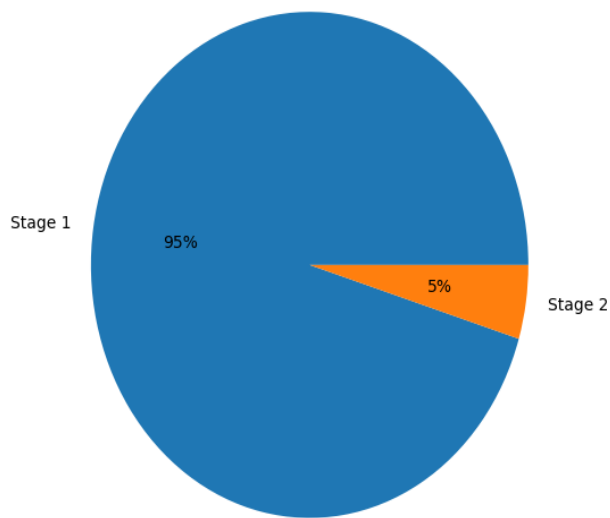
Both the countries are increasing their daily vaccination count with India touching the mark of 4 lakhs whereas USA touching the mark of 17.5 lakhs.

It can be noted from the graph that the vaccination drive in India started a month late when compared to USA with an initial rate of almost 2 lakh people per day.

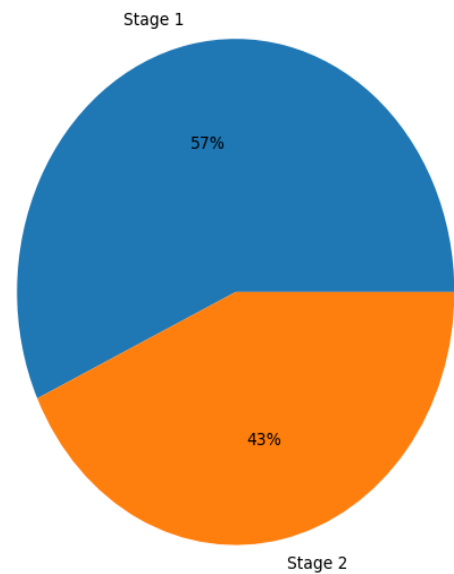
India touched a mark of 4 lakh people per day in a period of one month whereas USA touched the mark of 9 lakh people per day in a one-month period starting with an initial rate of 55 thousand people per day.

- **Vaccination Stages**

Percentages of People in different stages in India



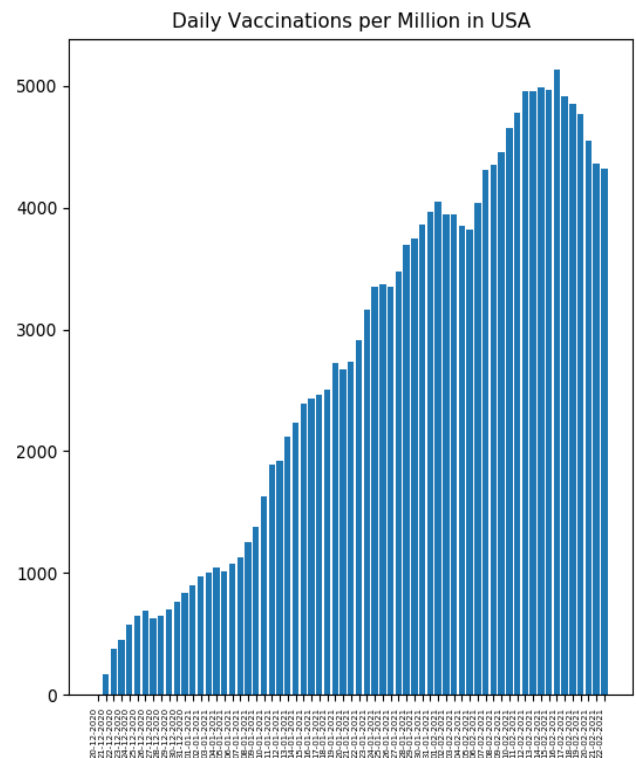
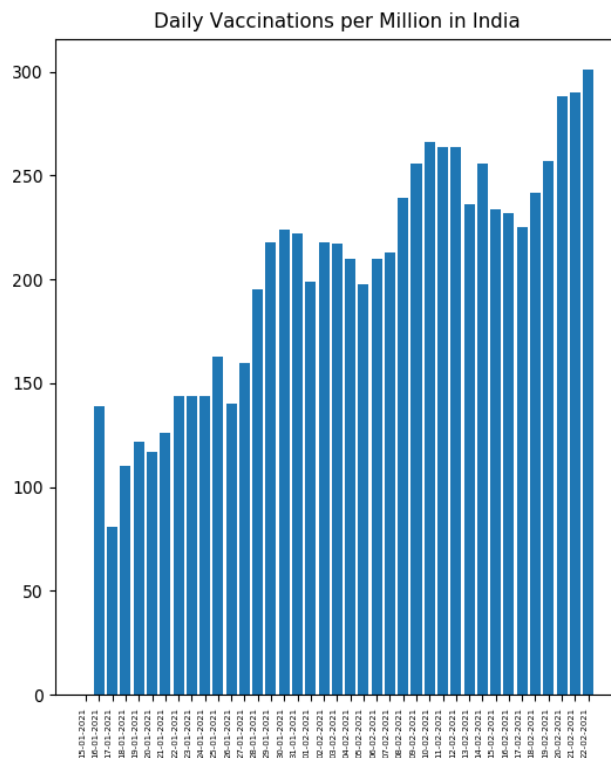
Percentages of People in different stages in USA



This graph represents the percentage of people in different stages of drive receiving the vaccination.

It can be inferred that a total of 5% of people who are receiving the covid19 vaccination are in 2nd stage whereas in USA almost 43% of people who are receiving the vaccination are in 2nd stage.

- **Daily Vaccination Per Million**



This graph shows the daily vaccination count per million people.

India being the country with second largest population in the world is far behind USA (whose population is almost 1/4th of India's population) in vaccination drive.

CONCLUSION

Comparing the results of vaccination drives of the above 2 countries, we can conclude that it is the need of the hour to call for a more systematic plan of attack and more strict and effective policies to make the vaccination drive successful in India.