

Roll No: CO348

MINI PROJECT REPORT ON

**COVID_VACCINE_STATEWISE.CSV DATASET AND
PERFORM FOLLOWING ANALYTICS ON THE GIVEN
DATASET**

**SUBMITTED TO :
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Title: Use the following covid_vaccine_statewise.csv dataset and perform following analytics on the given dataset

- a. Describe the dataset
- b. Number of persons state wise vaccinated for first dose in India
- c. Number of persons state wise vaccinated for second dose in India
- d. Number of Males vaccinated
- d. Number of females vaccinated

Introduction:

Corona viruses are a large family of viruses which may cause illness in animals or humans. In humans, several corona viruses are known to cause respiratory infections ranging from the common cold to more severe diseases such as Middle East Respiratory Syndrome (MERS) and Severe Acute Respiratory Syndrome (SARS). The most recently discovered corona virus causes corona virus disease COVID-19 - World Health Organization.

COVAXIN® - India's First Indigenous COVID-19 Vaccine. COVAXIN®, India's indigenous COVID-19 vaccine by Bharat Biotech is developed in collaboration with the Indian Council of Medical Research (ICMR) - National Institute of Virology (NIV).

COVID-19 vaccines help our bodies develop immunity to the virus that causes COVID-19 without us .

Why Statewise Consideration?

India is a vast country with a geographic area of 3,287,240 square kilometers and a total population of about 1.3 billion . Most of the Indian states are quite large in geographic area and population. Analyzing coronavirus infection data, considering the entirety of India to be on the same page may not provide us the right picture. This is because the first infection, new infection rate, progression over time, and preventive measures taken by state governments and the common public for each state are different. We need to address each state separately. It will enable the government to use the limited available resources optimally. For example, currently, Maharashtra already has more than 10,000 confirmed infected cases, whereas West Bengal has less than 800 confirmed cases (May 1, 2020). The approaches to addressing the two states must be different due to limited resources. One way to separate the statewise trajectories is to look at when each state was first infected.

IMPORTING PYTHON LIBRARY:-

we import all the required pyhton libraries.

#IMPORTDEPENDENCIES:-

- 1) Import pandas as pd – It is used for working with datasets.
- 2) Import numpy as np – to perform mathematical operation.
- 3) Import matplotlib.pyplot as plt – 2D graphs & other data visualizations & models.
- 4) Import seaborn as sns – it is library that is uses matplotlib underneath to plot graphs. It is used to visualize random distribution.

Advantages :

1 .Vaccination is one of the most successful public health interventions in reducing disease spread, preventing complications and even deaths from vaccine preventable diseases.

2.preventing us from getting infected at all.

Disadvantages:

1. Pain, swelling, or redness where the vaccine was injected.

2 .Mild fever.

3 .Chills.

4.Feeling tired.

5 .Headache.

6.Muscle and joint aches.

Visualization Tools:

- All visuals used, line graphs, bar graphs, worldwide and country maps, including time series prediction graphs were created using Plotly
- Plotly is a visualization package that can be used in both R and Python
- Plotly is interactive!
- Loses the interactive format when imported to slides/ppt.
- I tried taking advantage of this feature but I couldn't make it to work

Application:-

- 1) Aarogya setu app
- 2) Aarogya setu
- 3) Umang Apps
- 4) Co-win

Conclusion:-

Vaccines teach your immune system how to create antibodies that protect you from diseases. It's much safer for your immune system to learn this through vaccination than by catching the diseases and treating them.