REPORT

ON MACHINE LEARNING PROJECT:

"Covid-19 Vaccination"

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OVERVIEW:-

This project **Covid-19 Vaccination**' is a Machine Learning made using Python Code is a simple Code designed for Tracking Covid-19 Vaccination Progress.

India began Administration of COVID-19 Vaccines on 16 january 2021(145 days ago). As of 9 June 2021, India has Administered 242,726,693 doses overall, including first and second doses of the currently-Approved Vaccines.

GOAL:-

- Graph of Vaccination Administrated by Gender.
- Graph of Vaccine Brands used in the country.
- Graph of Vaccination Administrated by Age.
- Graph of State Wise Administrated Vaccination.
- Graph of Total individual Vaccination.

SPECIFICATIONS:

This Python Code provide details about the Covid-19 Vaccination Report in India. We display some more Graphs to Display Vaccination Progress.

RESOURCE:

Spider in this we are using Python as a Source code

SOURCECODE

```
Fditor
C:\Users\Shamsher\OneDrive\Desktop\MI Python\Vaccination\covid_vaccine.py
covid_vaccine.py* ×
           # It is defined by the Shamsher using Python Machine Learning
           #Some Libraries We Need to Import From The Pip Library
           import pandas as pd # data processing, CSV file I/O (e.g. pd.read_csv)
           import seaborn as sb # use to Matplotlib Underneath to Plot Graphs
           import matplotlib.pyplot as plt #Use to Plot Graphs
           import numpy as np # it is used to calculate the mathematical equations
           import cufflinks as cl # use to connect the Pandas data frame with Plotly enabling to create Visualizations directly
          import plotly.offline as po # This Allows us to generate graphs offline and save them in local Machine
          import warnings # importing Warning Library to ignore the minor bugs
          warnings.filterwarnings('ignore')
          # Enabling the offline Mode to Generate Graphs
    15
          po.init_notebook_mode(connected=True)
          cl.go_offline()
          # Fetcing CSV file from the dirctory
          df = pd.read_csv('covid_vaccine_statewise.csv')
          # This allows us to Fetch first Top 5 Data from the list
          # Checking if the file is null if There is no data then Calling Sum() function To add present Data
          df.isnull().sum()
          # Setting up the Figure Size to 10,12
          plt.rcParams['figure.figsize'] = 10, 12
          # First Dose Administered & Second Dose Administered
          f, sub = plt.subplots(figsize=(28, 28))
          content= df[['State','First Dose Administered','Second Dose Administered']]
          content.sort_values('First Dose Administered', ascending=False, inplace=True)
          sb.set_color_codes("pastel")
          sb.barplot(x="First Dose Administered", y="State", data=content,label="First Dose Administered", color="blue")
          sb.set_color_codes("muted")
          sb.barplot(x="Second Dose Administered", y="State", data=content, label="Second Dose Administered", color="green")
          sub.legend(ncol=2, loc="lower right", frameon=True)
sub.set(xlim=(0, 700000), ylabel="",xlabel="First Dose Administered & Second Dose Administered")
           sb.despine(left=True, bottom=True)
          # Male(Individuals Vaccinated) & Female(Individuals Vaccinated)
          f, sub = plt.subplots(figsize=(28, 28))
          content = df[['State', 'Male(Individuals Vaccinated)', 'Female(Individuals Vaccinated)']]
content sort values('Female(Individuals Vaccinated)' ascending-False innlace-True)
```







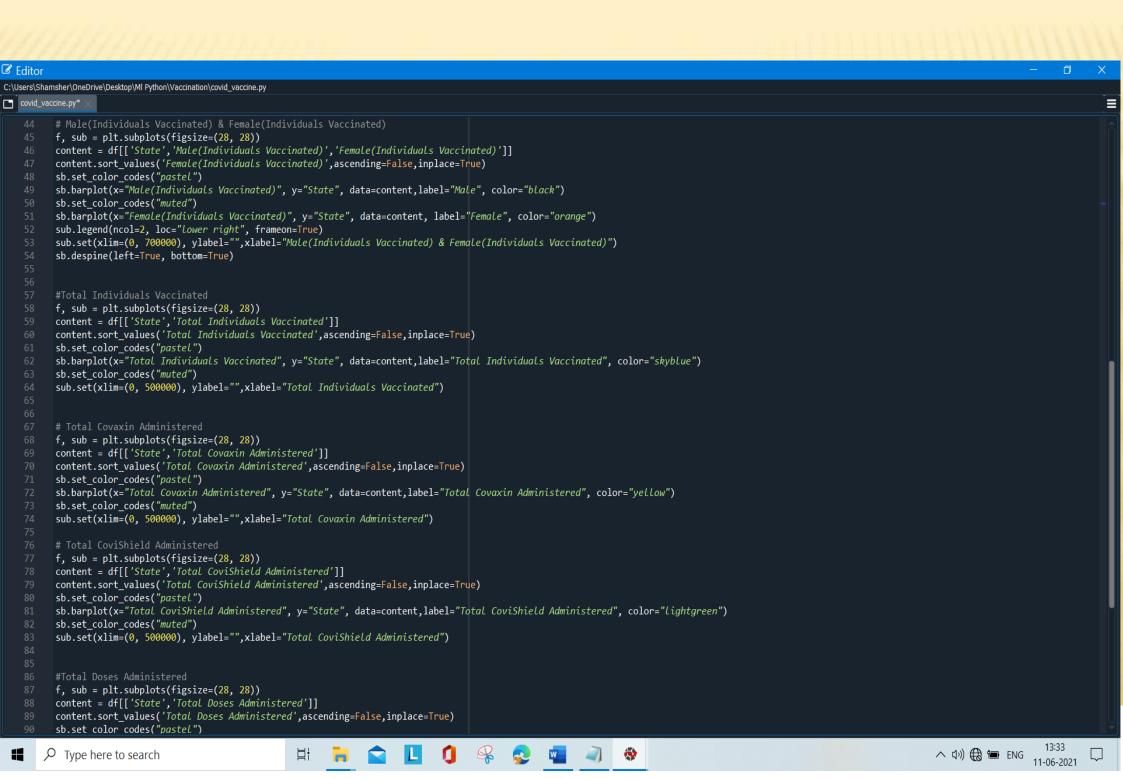


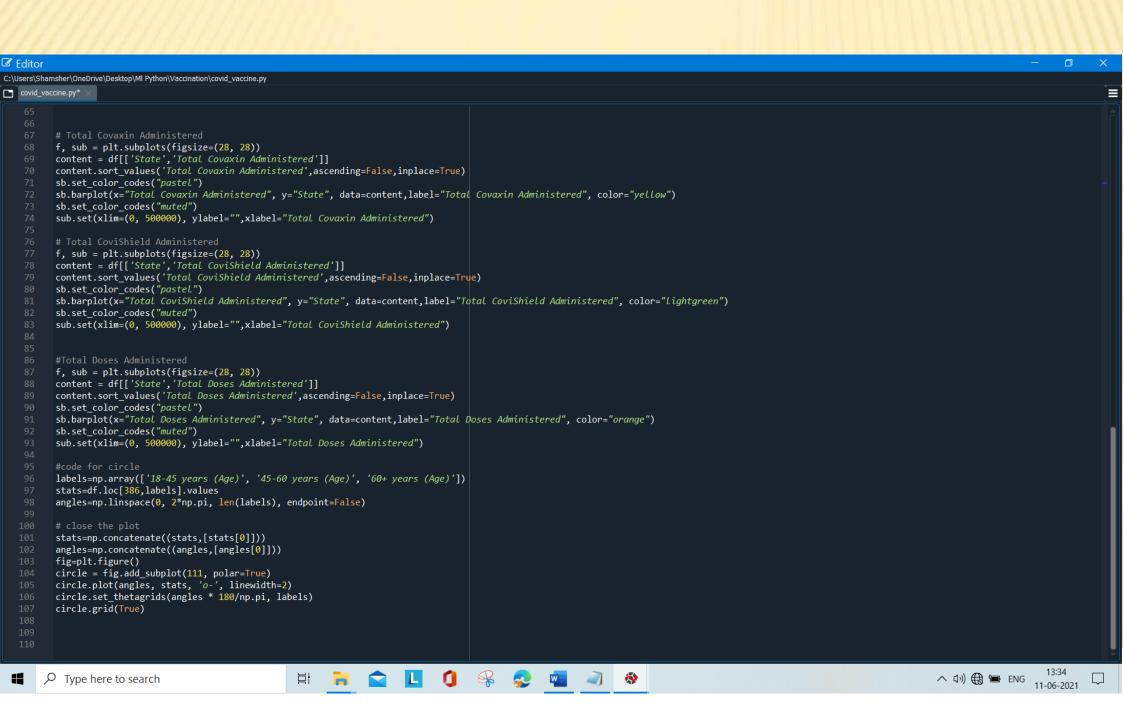




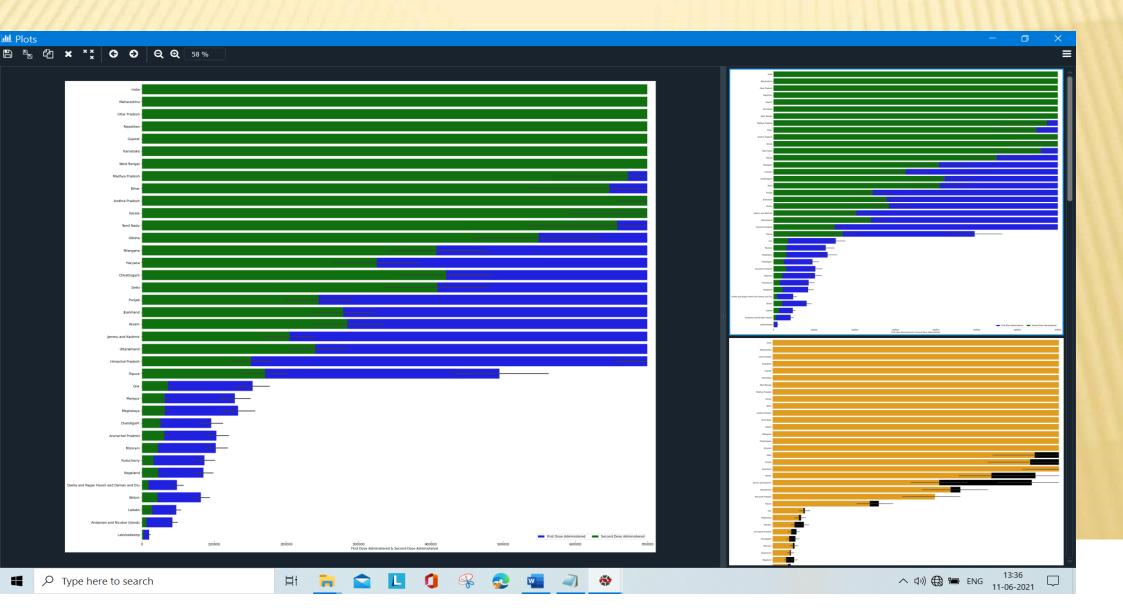


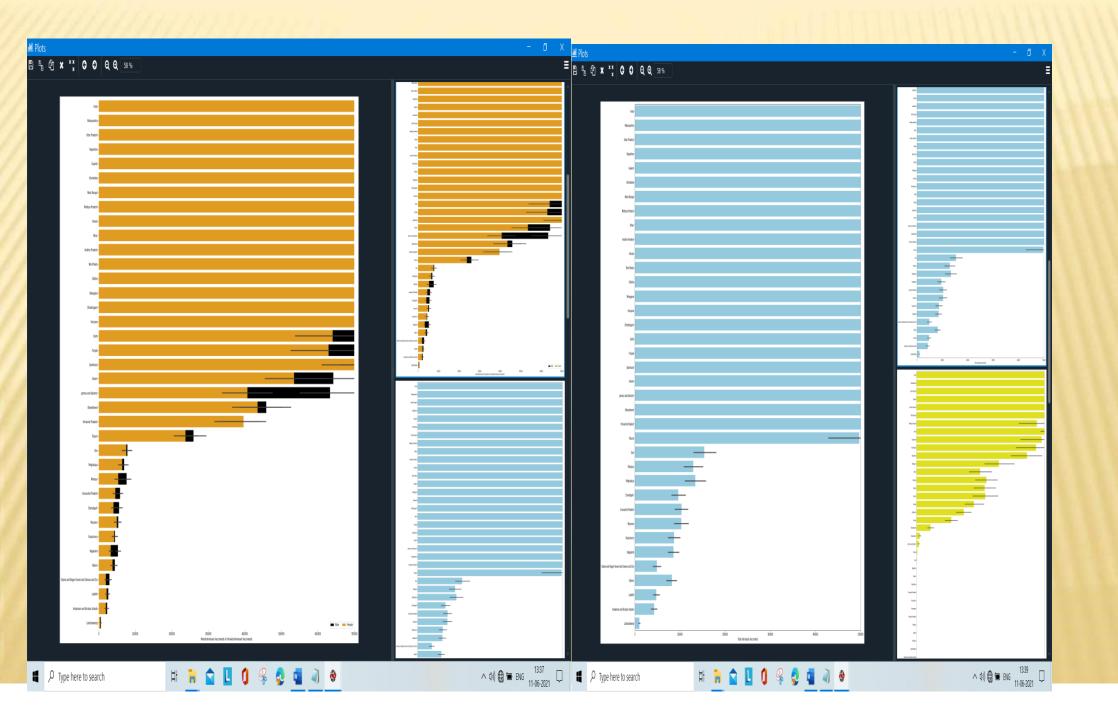


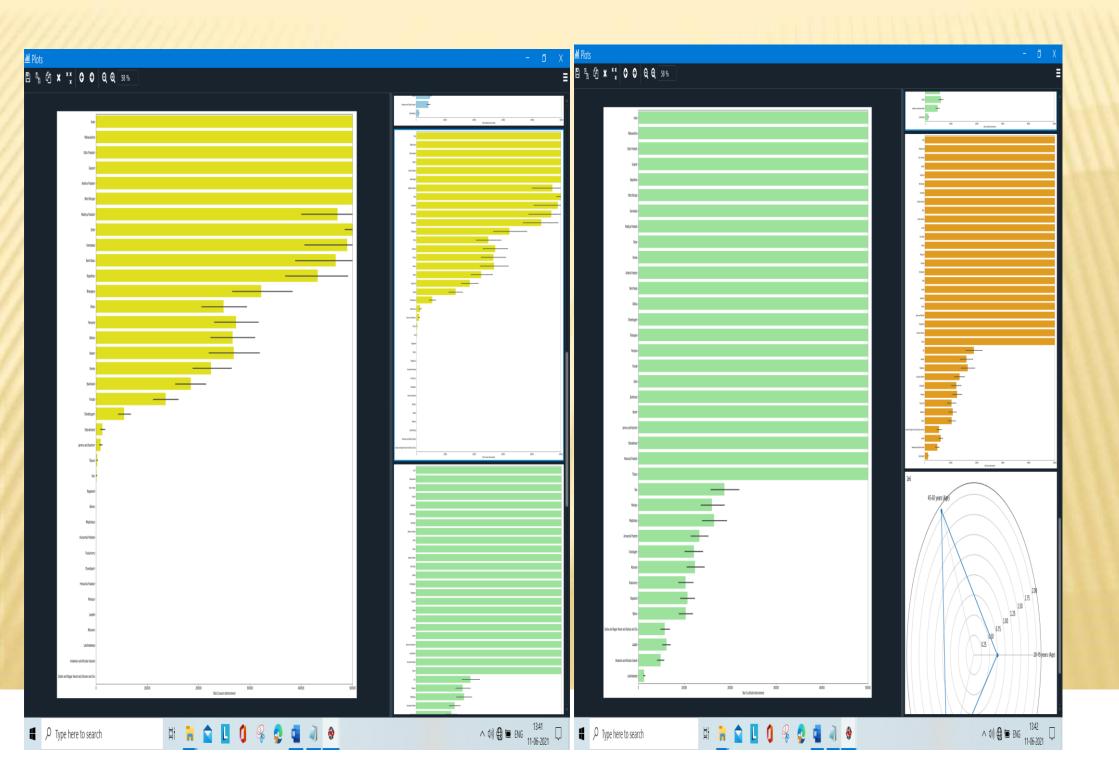


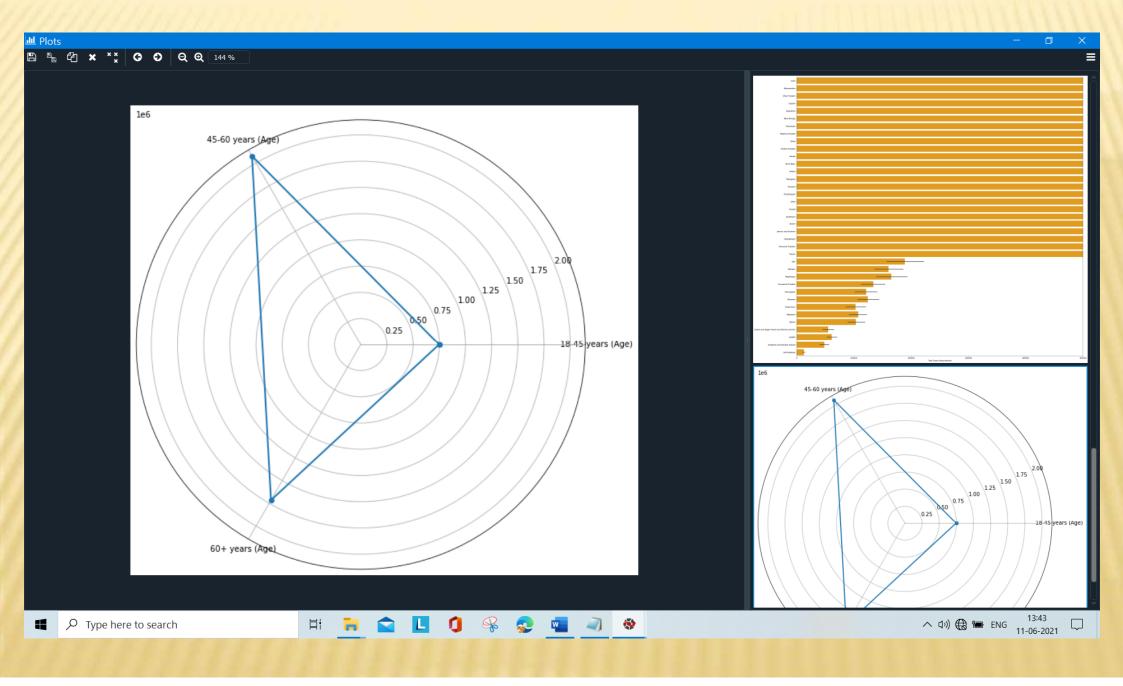


OUTPUT:-









Source Code:-

This Github project Will be Created on 10th June with the Help of 9th June Data so The Updated Data is not Present in the Project. I Tried to add live data in the Python Code but its very deficult to me so I added the present data of the coding time.

GitHub:- https://github.com/Shamsher-Desai/Covid-19-vaccination.git

References:-

- https://en.wikipedia.org/wiki/COVID-19_vaccination_in_India
- https://geographicinsights.iq.harvard.edu/IndiaVaccine
- https://www.kaggle.com/monalisapanda94/covid