COVID-19 VACCINES ANALYSIS

*SHORT EXPLANATION ABOUT PROJECT

- 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 problem is to conduct an in-depth analysis of Covid-19 vaccine data, focusing on vaccine efficacy, distribution, and adVerse effect

DATA GATHERING

- The dataset is taken from the kaggle and it od downloaded from

https://www.kaggle.com/datasets/gpreda/covid-world-vaccination-progress

- This Dataset contains Country level vaccination data is gathered and assembled in one single file. Then, this data file is merged with locations data file to include vaccination sources information

- This dataset contains number of daily vaccination for that day and country

- **COVID-19 World Vaccination Progress**" Data Analysis with Python. Collected this Dataset from "Kaggle" which is the world's largest data science community with powerful tools and resources.
- This dataset contains 35310 rows and 15 columns which is really informaive to analysis.

DETAILS ABOUT COLUMNS

- The columns used in dataset is" **Location** ":This explains the country
- Date – When the vaccines are used are noted
- **Total number of vaccinations** - total number of vaccinations / current time and vaccine type
- Vaccines type- which type of vaccines is used is explained in that column

DETAILS OF LIBRARIES TO BE USED

- PANDAS:Pandas is a Python library used for working with data sets. It has functions for analyzing, cleaning, exploring, and manipulating data

  import pandas as pd

- MATPLOTLIB:Matplotlib is a comprehensive library for creating static, animated, and interactive visualizations in Python.

  Import matplotlib as plt

- SEABORN:Seaborn library is a widely popular data visualization library that is commonly used for data science and machine learning tasks

  Import seaborne as sns

HOW TO DOWNLOAD LIBRARIES

- To download libraries in Python, you typically use a package manager called “pip.”
- Open a Terminal or Command Prompt: On Windows, open the Command Prompt. On macOS or
- Linux, open the Terminal.
- Install the Library: Use the following command to install a Python library using pip, replacing
- library_name with the name of the library you want to install:
- pip install library_name
- For example, if you want to install the popular library numpy, you would run:
- Pip install numpy
- Wait for Installation: pip will download and install the library and its dependencies. You’ll see
- progress in the terminal as it does this.Wait for Installation: pip will download and install the
- library and its dependencies. You’ll see progress in the terminal as it does this.
- Verify Installation: You can verify that the library is installed correctly by opening a Python
- interpreter and trying to import it. For example:
- Import numpy
- If you don’t get any error messages, the library is installed and ready to use.
- Additionally, if you’re using Python 3, you might use pip3 instead of pip (e.g., pip3 install
- library_name) depending on your system configuration

TESTING AND TRAINING

- measure of how well vaccination protects people against health outcomes
- By tarining and testing the project we can easily outcome the project

MERITS USED FOR CHECKING ANALYSIS

- A measure of how well vaccination protects people against health outcomes
- To get accuracy
- Efficiency