Covid Vaccine Analysis

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Project title : Covid Vaccines Analysis

Covid Vaccines Analysis

Project Definition:

In this Project we need to make a Depth analysis on the Given datasets for optimizing the vaccine distribution and adverse effects. Covid -19 is one of the biggest threat in this world during period of 2019 to 2023.Many vaccine were playing role in this dramatic situation. On the project we have two different Datasets that is country vaccinations and country vaccination by manufactures. These two datasets define vaccination among the country and vaccination by manufacture on day by day.

This is my innovated design Thinking for performing

Analysis on the data we'll see it

Design Thinking:

- **Data collection:**

  Datasets were collected on the Kaggle website
  On the name of covid-19 world vaccination.
  It contains two different datasets named country vaccination by manufactures, country vaccinations

- **Data preprocessing:**

  Datasets may contain missing values and many outliers, so we need perform anomaly detection
  And cleansing on the datasets.

- **Exploratory Data Analysis:**

  Perform the EDA process on the datasets to get some patterns among the data. Exploratory Data Analysis (EDA) is an analysis approach that identifies general patterns in the data. In this data
  I got some hidden patterns among countries and their total vaccinations and also we can understand the relationship visually by use of libraries matplotlib and seaborn

- **Statical Analysis:**

  Statistical analysis is the process of collecting and analyzing large volumes of data in order to identify trends and develop valuable insights. In this data We can make some statistical analysis to identify the descriptive among the data on both datasets. First of all we convert the date and time into proper format. We can find a good valuable insight to Optimize the vaccination distribution and adverse affects

- **Machine learning Technique:**

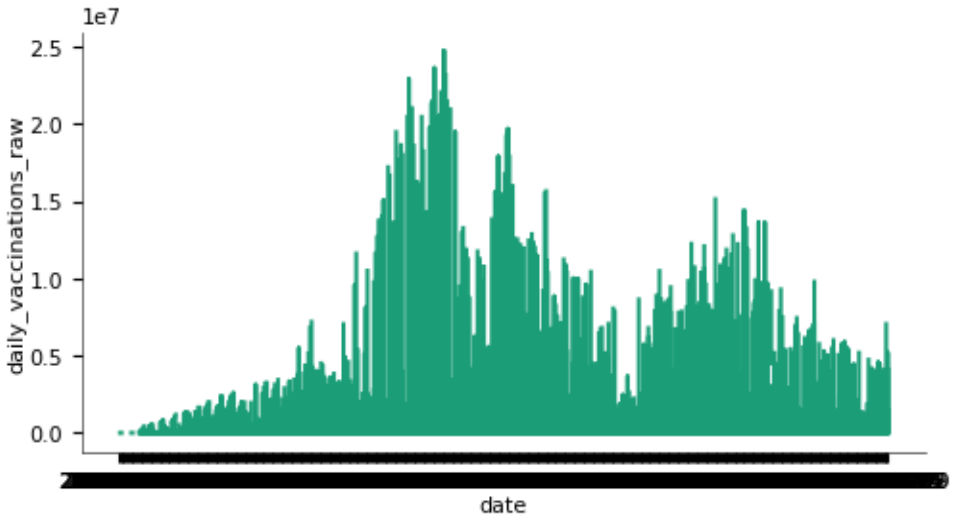
  Using the machine learning techniques to we can make a model to predict values attribute .Machine Learning Algorithms use full to make a good model And feed the data as per the preprocessed source. On my hope we can make a Good Regression model By this Dataset to we can predicta the value.

  Ex:-

  We can use people vaccinated column to predict the people fully vaccinated column for any country in the world.

- **Time series Forecasting:**

  In this Data we seen the date wise vaccinations Country on all over world. So we make the Time series Analysis on the datasets. To make Time Series Forecasting strategy to we plot future Time intervals to find the growth of the Vaccination rate among the Countries



- **Visualization:**

  Some visualization is good to use to understand the data and their relationship of the attributes. Some visualization I got online it provide

- **Provide Insight:**

  At last we find some good hidden insights
  It could use full for the vaccine distribution on the country so manufacture can focus on the
  Vaccine effect and country that are vaccinated
  In least count on my pivot analysis I got some
  Hidden insights that could shown below:

Some hidden insight I got,

- There among 225 country India has maximum
  People is fully vaccinated.
- Pitcarin has lowest vaccinated people
  So mainly focus on this country.
- In the start of covid Johnson & Johnson,
  Moderna ,Pfizer has maximum vaccination all over the world
- But Covaxine plays major role in the covid-90
  Vaccination in field .That was produce by our Indian government.

It could be Assist for the pharmaceutical scientists
In the medicine filed.

Conclusion:

This project could help vaccine distributers and Countries on their vaccination.it should be mor versatile when we create model for prediction and analysis of the data. At last I find hidden insights should valuable for workers on the field and manufactures