**Tracking covid 19 vaccine based on Our world data**

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**Background**

**In this project i plan to use the data i have from**[**Our World In Data**](https://www.google.com/url?q=https://ourworldindata.org&sa=D&source=editors&ust=1636916292872000&usg=AOvVaw2JjKUn8Li6dMZcJIF4qI91)**to help me track the Covid-19 vaccine progress in all over the world**

**Question/need:**

* **Which country is using what vaccine?**
* **In which country the vaccination programme is more advanced?**
* **Where are more people vaccinated per day? But in terms of percent from the entire population ?**

**Data Description:**

* **Kaggle Dataset :**[**Covid-19 World Vaccination Progress**](https://www.google.com/url?q=https://www.kaggle.com/gpreda/covid-world-vaccination-progress?select%3Dcountry_vaccinations.csv&sa=D&source=editors&ust=1636916292873000&usg=AOvVaw2oP0ceBtxz9AwRJIxdhwrJ)
* **The data is collected daily from**[**Our World In Data**](https://www.google.com/url?q=https://ourworldindata.org&sa=D&source=editors&ust=1636916292874000&usg=AOvVaw2Y49O9eazyP31STP7hgbTC)**github repository for covid-19**
* **The columns in the dataset**

|  |  |
| --- | --- |
| **Column** | **Description** |
| **Country** | **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** | **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 vaccination might be larger than the number of people** |
| **Total number of people fully vaccinated** | **the number of people that received the entire set of immunization according to the immunization scheme (typically 2)** |
| **Daily vaccinations(row)** | **for a certain data entry, the number of vaccination for that date/country;** |
| **Daily vaccinations** | **for a certain data entry, the number of vaccination 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 vaccination 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;** |

**Tools:**

* **Python**
* **Jupiter**

**Libraries:**

* **Numpy**
* **Pandas**
* **Matplotlib**