

## “The COVID-19 Vaccinations”

It has been a year since the World Health Organization (WHO) declared the outbreak of a new type of Coronavirus (COVID-19) as a global pandemic. Since then, scientists around the world have started to develop vaccines for the disease. Various companies in different countries started developing their own vaccines. They predicted that the vaccine should be ready by the end of 2020, and it turns out it's true. Some vaccines actually can be used last December. This means that countries can start their vaccination journey.

**What:** Several aims can be achieved since five months already passed:

- What is the progress of the vaccinations in each country around the world? What is the percentage compared to the population in each country?
- What is the forecast for the vaccinations?
- How many types of vaccines are currently available? Which country uses which vaccines? Which vaccines used the most globally?

**Why:** As a resident of a country that still has a high rate of coronavirus, I'm curious what is the progress for the vaccinations. Not only in my country but also to gain insights into other countries. I know there are already tons of sources that highlighted this, but I'm curious about several things, such as the total doses of vaccinations that have been or types of vaccines that exist, and where they have been used.

**Data:** The dataset was sourced from Kaggle<sup>[1]</sup>; it has several data such as the country, total vaccinations daily, the number of vaccinated people daily, the number of fully vaccinated people daily, etc. Another data that is needed is the world population, which I got by web scraping.

**How:** For this project, I will use Tableau because of familiarity and a perfect visualization and data analysis tool. Python and Jupyter Notebook also will be used with some libraries such as pandas and BeautifulSoup for web scraping the world population data.

country iso_code date total_vaccinations people_vaccinated people_fully_vaccinated daily_vaccinations_raw daily_vaccinations total_vaccinations_per_h									Country	Population	
0	Afghanistan	AFG	2021-02-22	0.0	0.0	NaN	NaN	NaN	0	China	1439323776
1	Afghanistan	AFG	2021-02-23	NaN	NaN	NaN	NaN	1367.0	1	India	1380004385
2	Afghanistan	AFG	2021-02-24	NaN	NaN	NaN	NaN	1367.0	2	United States	331002651
3	Afghanistan	AFG	2021-02-25	NaN	NaN	NaN	NaN	1367.0	3	Indonesia	273523615
4	Afghanistan	AFG	2021-02-26	NaN	NaN	NaN	NaN	1367.0	4	Pakistan	220892340

**Reference:**

[1] Preda, G. (2021, April 24). Covid-19 World Vaccination Progress. Retrieved from <https://www.kaggle.com/gpreda/covid-world-vaccination-progress>