

Analysis on COVID-19 World Vaccinations Progress



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Introduction

- To bring COVID-19 to an end, a large share of the world needs to be immune to the virus. The safest way to achieve this is with a vaccine.
- This study is to track the progress of availability of COVID-19 vaccines globally.
- Data origin: <https://www.kaggle.com/gpreda/covid-world-vaccination-progress>

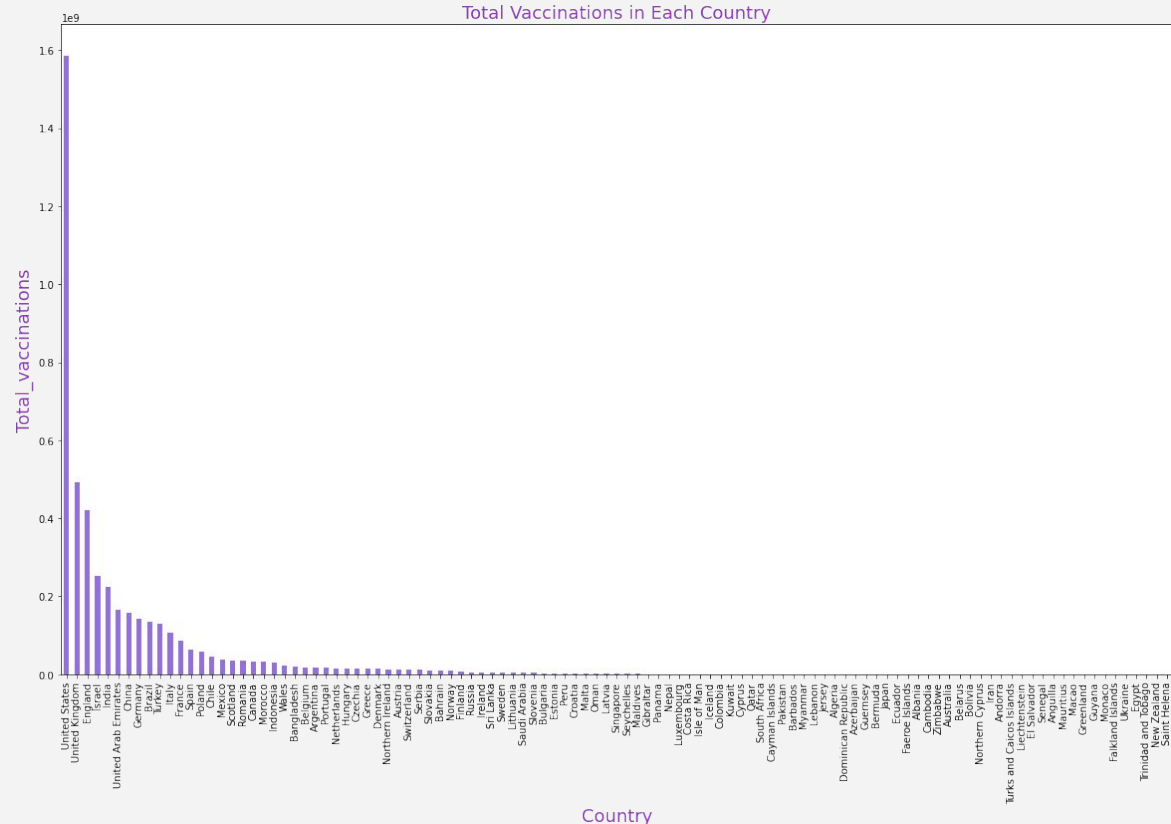


Firstly, I analyzed and made visualizations of the amount of people getting vaccinated in each country, including both vaccinated once and twice.

(Getting vaccinated twice is called “fully-vaccinated”)

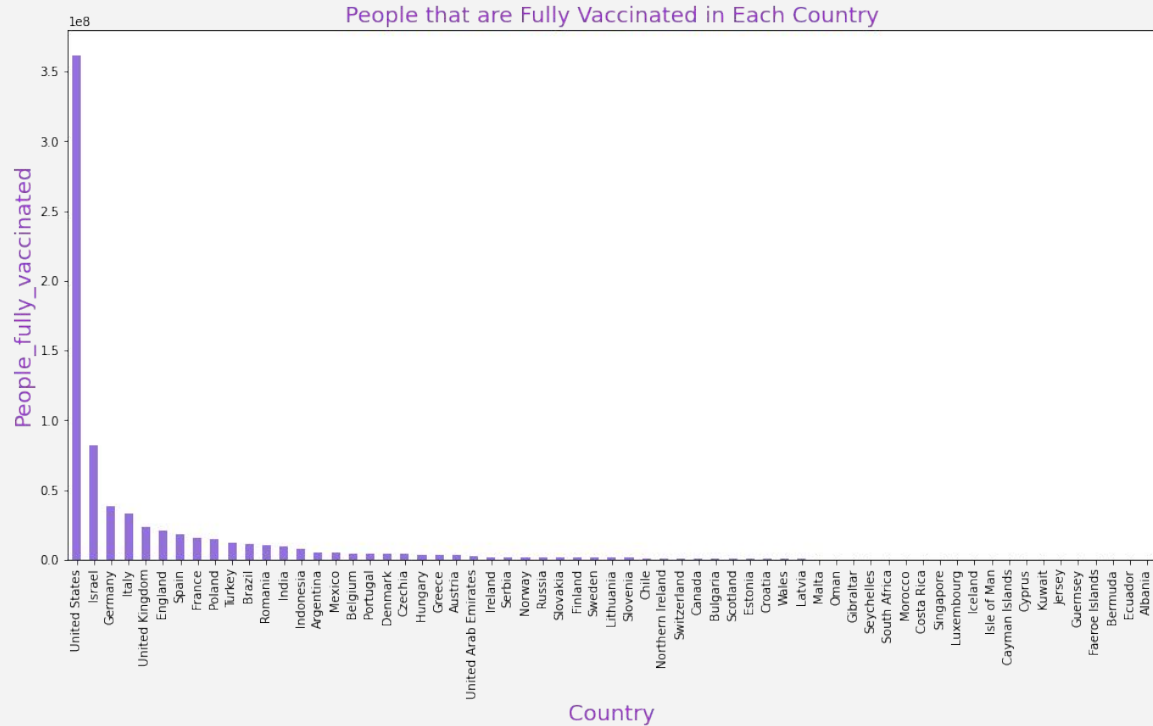
Amount of People Vaccinated in Each Country

- All 107 countries have people being vaccinated.
- Rich countries have more people vaccinated.
- The number of people getting vaccinated in the US is more than the sum of the rest countries.
- The top three countries that have more people vaccinated are United States, United Kingdom, England.



Amount of Fully-Vaccinated People in Each Country

- Only 63 countries (among the recorded 107 countries) have people that are fully vaccinated.
- The number of people getting fully vaccinated in the US is more than the sum of the rest countries.
- The top three countries that have more people fully vaccinated are United States, Israel, and Germany.

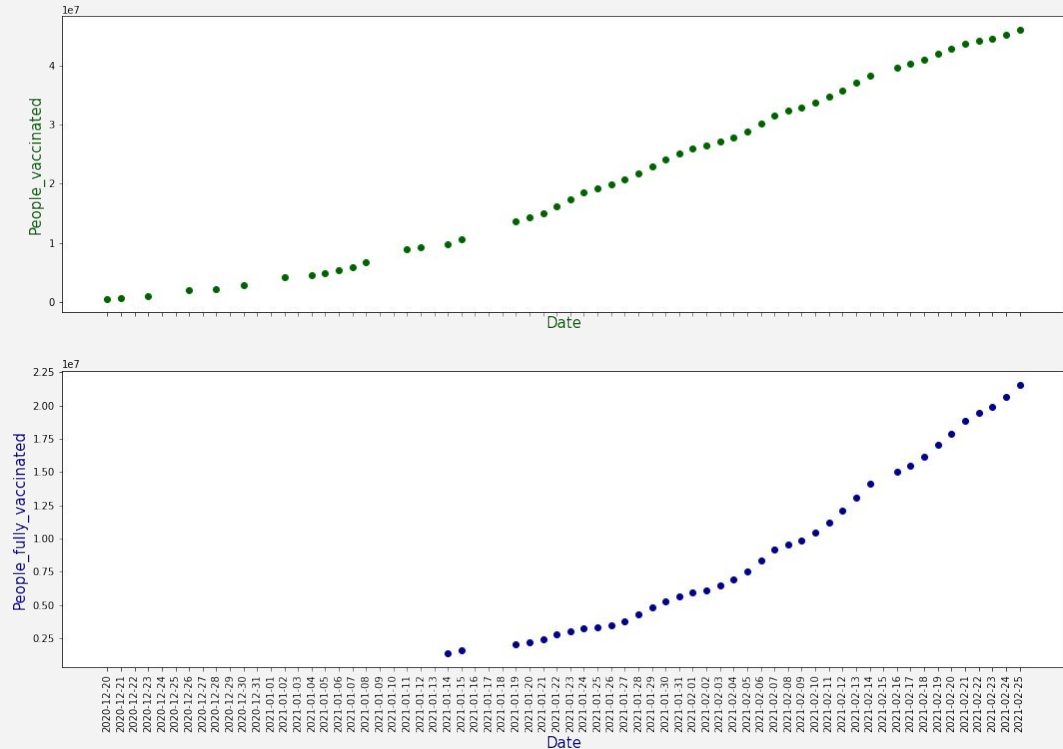


Secondly, based on the result from the first two visualization, I analyzed the progress of the number of people getting vaccinated and fully-vaccinated in the top three leading countries that have more people being fully-vaccinated.

Progress of the Number of People Getting Vaccinated & People fully vaccinated

- Both the number of people vaccinated daily and the number of people fully vaccinated daily in the United States are increasing.
- Approximately half of the people who have got vaccinated daily are fully vaccinated.
- There are days no one gets vaccinated.

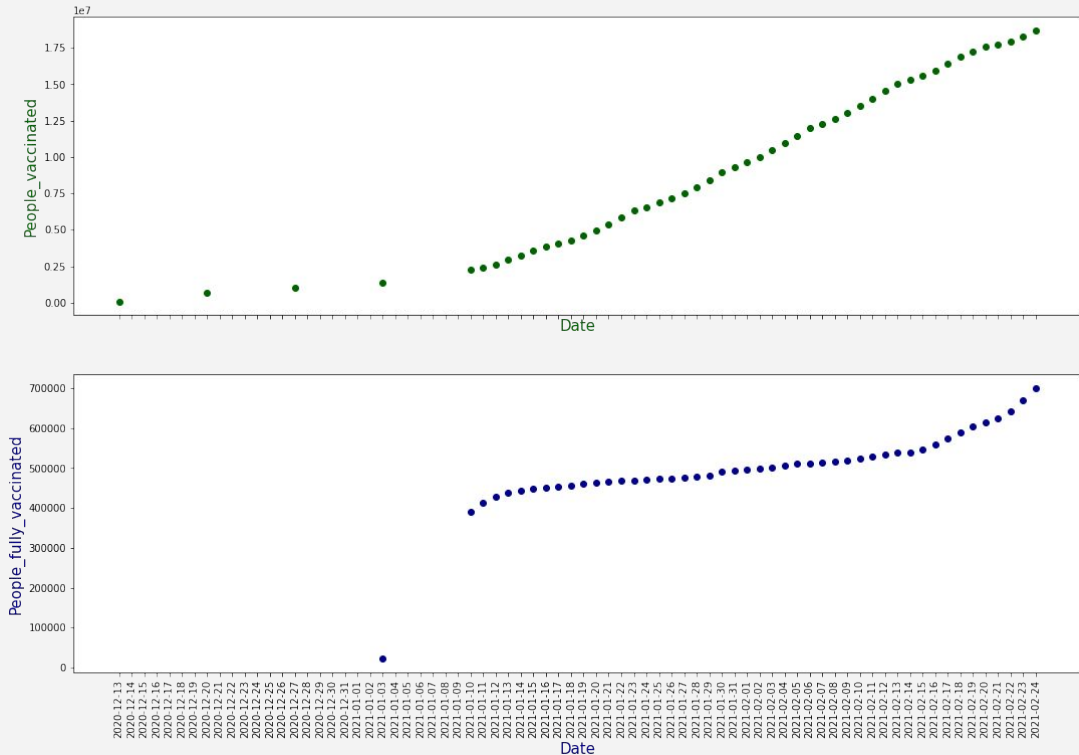
United States



Progress of the Number of People Getting Vaccinated & People fully vaccinated

United Kingdom

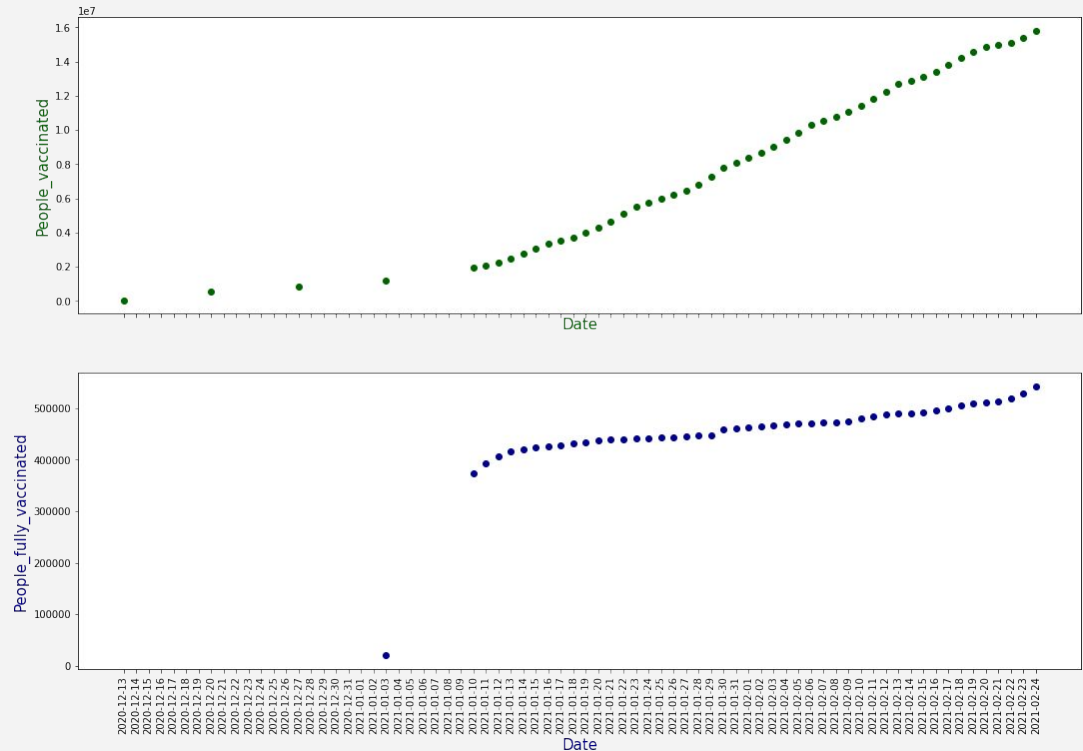
- The number of people vaccinated daily increased more rapidly than the number of people fully vaccinated daily in the United Kingdom.
- Less than half of the people who have got vaccinated daily are fully vaccinated.
- There is almost the same amount of people get fully vaccinated daily from January 16th, 2021 to February 16th, 2021. But a big increase after February 16th.
- There are days no one gets vaccinated.



Progress of the Number of People Getting Vaccinated & People fully vaccinated

- The number of people vaccinated daily increased more rapidly than the number of people fully vaccinated daily in England.
- Approximately half of the people who have got vaccinated daily are fully vaccinated.
- There is almost the same amount of people get fully vaccinated daily from January 12th, 2021 to February 16th, 2021.
- There are days no one gets vaccinated.

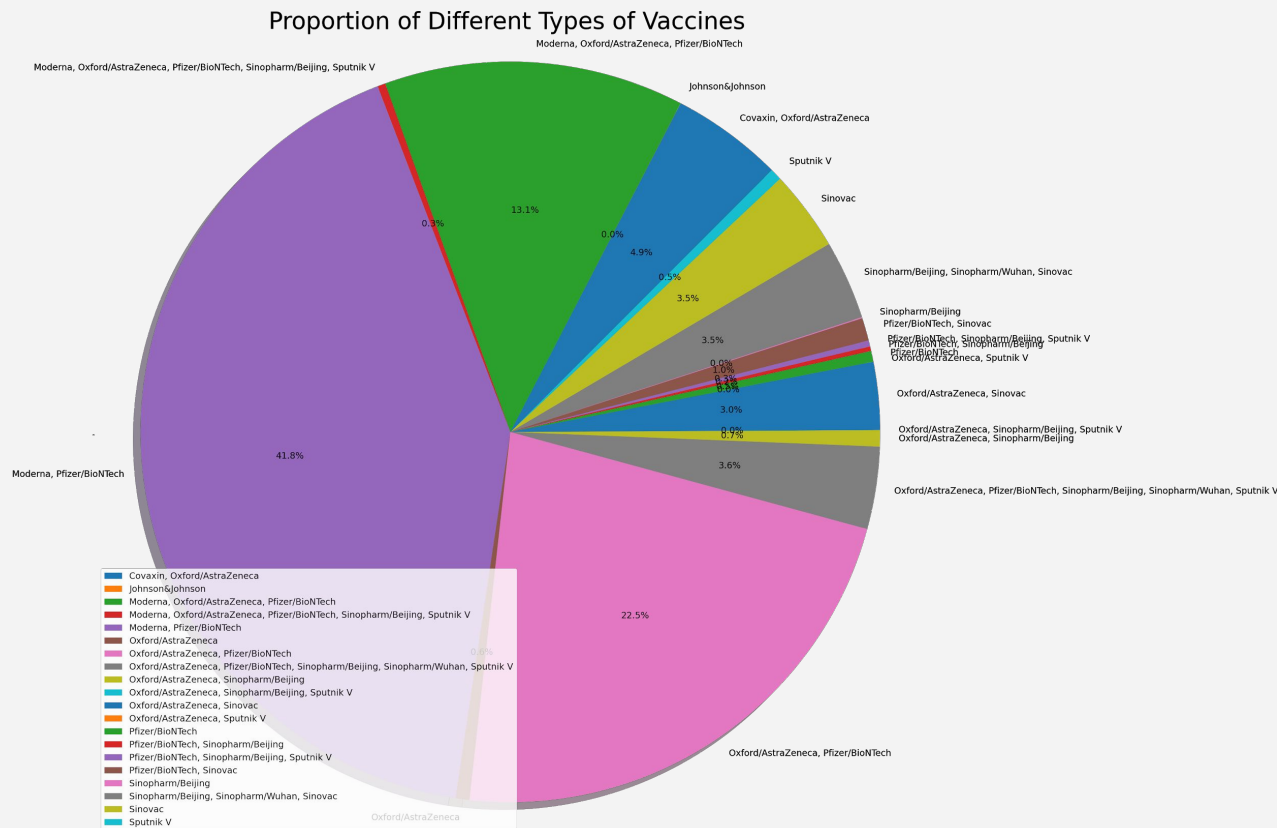
England



Thirdly, I focused on analyzing the different types of vaccines and their popularity globally.

Proportion of Different Types of Vaccines

- “Moderna, Pfizer/BioNTech” is the most-highly used one.
- The use of “Moderna, Pfizer/BioNTech” weighs 41.8 percent out of all vaccines used globally.



Summary

1. People in all 107 countries recorded in the dataset have started to get vaccinated, which is a good sign of overcoming COVID-19.
2. Much more people in rich countries get vaccinated than those in less-privileged countries.
3. There are still a great amount of people globally who haven't got the second shot.
4. "Moderna, Pfizer/BioNTech" is most widely-used vaccine.

