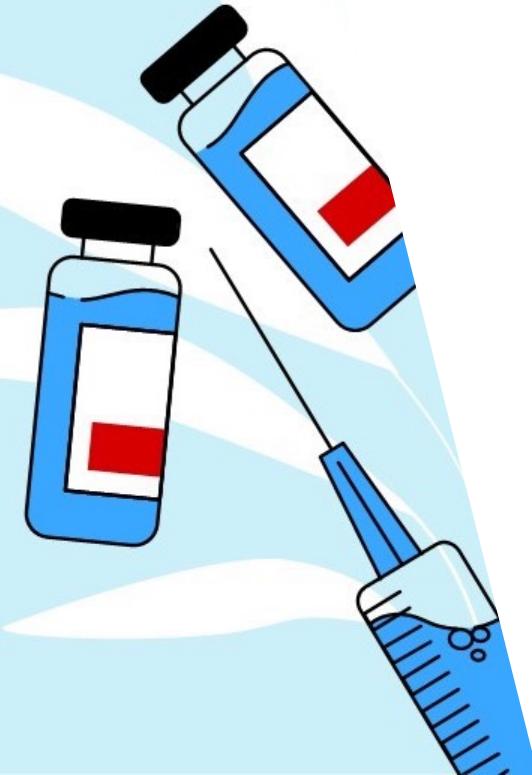


# COVID-19 World Vaccination Progress



# Introduction

Besides what we have known since the end of 2020, the World Health Organization (WHO) start introducing the COVID-19 vaccine toolkit equips all countries to prepare for and implement COVID-19 vaccination by providing guidance, tools, and training.



# Project Aims

The project support Ministries of Health, health workers, partner organizations, and other stakeholders.

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# 01

## Design



# Design

The project design plan:

- Predicate when will the world will be fully vaccinated.
- Find out the most popular multiple vaccines combination.
- Find out the most country got Daily vaccinations in certain dates, certain period and in the final data updated.
- The relation between number of people fully vaccinated and covid cases after people get fully vaccinated. P.S (I should find another data include daily cases)



02

## Data



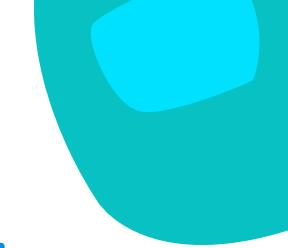
# Data

**The data source:**

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



# Data



**The data (country vaccinations) contains the following information:**

- Country.
  - Country ISO Code.
  - Date.
  - Total number of vaccinations.
  - Total number of people vaccinated.
  - Total number of people fully vaccinated.
  - Daily vaccinations (raw).
  - Daily vaccinations.
  - Total vaccinations per hundred.
  - Total number of people vaccinated per hundred.
  - Total number of people fully vaccinated per hundred.
  - Number of vaccinations per day.
  - Daily vaccinations per million.
  - Vaccines used in the country.
  - Source name.
  - Source website.
- During the process will remove some unnecessary columns.



03

## Algorithms

# Algorithm

**The model will be used:**

Linear regression, since I will work on a numerical data set.

**“A Picture Is  
Worth a Thousand  
Words”**



# 04

## Tools



# Tools

## Data processing

Will use Numpy and Pandas for (EDA).

## Modeling

Will use linear regression from scikit-learn library.

## Visualization

Will use Matplotlib and seaborn.

A photograph of a hand wearing a blue nitrile glove, holding a metal rack containing twelve test tubes. Each test tube is filled with a clear blue liquid. The rack is held over a white, textured surface, likely a lab bench. The background is a soft, out-of-focus blue.

# Thank You!

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