# COVID-19 Vaccine Data Analysis

Jay Laxami Soujanya Pentyala Jess Van Dame Chris Winn



### INTRODUCTION

- COVID-19 remains a global health emergency
- Pandemic is now in a transition phase
- Access to treatments and vaccinations across 178
   countries and 11 different vaccine types has significantly
   reduced health complications and deaths
- In U.S., Biden administration plans to end national health emergency on May 31, 2023

### **DATA ANALYSIS**

Examination of data related to COVID-19 vaccinations in the United States

- What are the vaccination totals by country?
- What are the U. S. vaccination totals by state?
- How many people in each state are fully vaccinated?

### **TABLE OF CONTENTS**

**DATA SOURCE** 

**APPROACH** 

03. VISUALIZATIONS

04. CONCLUSIONS



01

**DATA SOURCE** 

### **DATA SOURCE**

- Abundant vaccine data exists
- Readily available
- Data Sources:

https://www.kaggle.com/datasets/paultimothymooney/usa-covid19-vaccinations https://ourworldindata.org/covid-vaccinations



O2
APPROACH

### **APPROACH**

- Clean data
- Create dataframe for U.S. and world data
- Used PostgresSQL as database
- SQLAlchemy
- Flask API
- D3 JSON













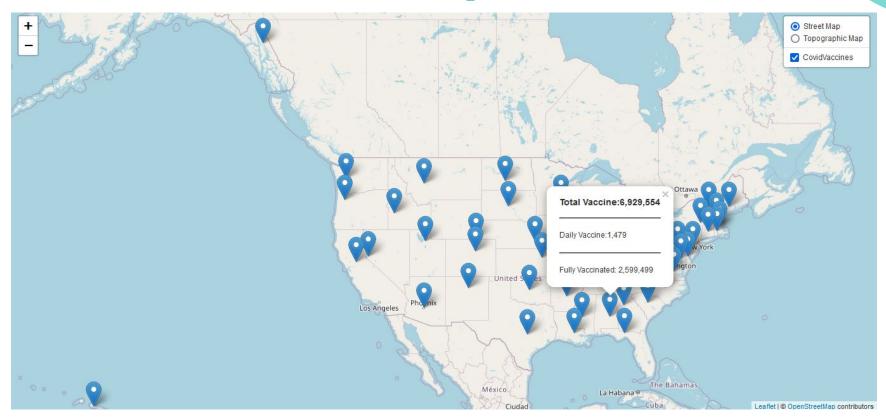
03

**VISUALIZATIONS** 

# **World Vaccination Map**



# **U.S. Vaccination Map**



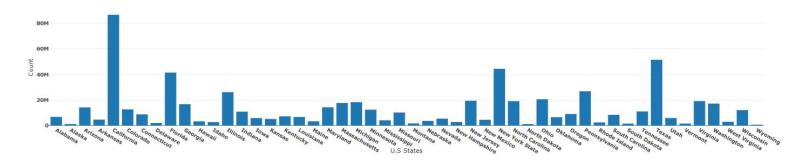
## **U.S.- Total Vaccinations by State**

### Covid vaccinations chart

Use the interactive charts below to explore the dataset

**Chart Type** 

Total Vaccinations per state

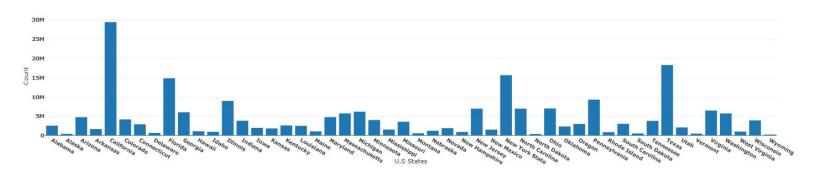


# **U.S.- Fully Vaccinated by State**

### Covid vaccinations chart

Use the interactive charts below to explore the dataset

Chart Type
[Number of people fully vaccinated >]



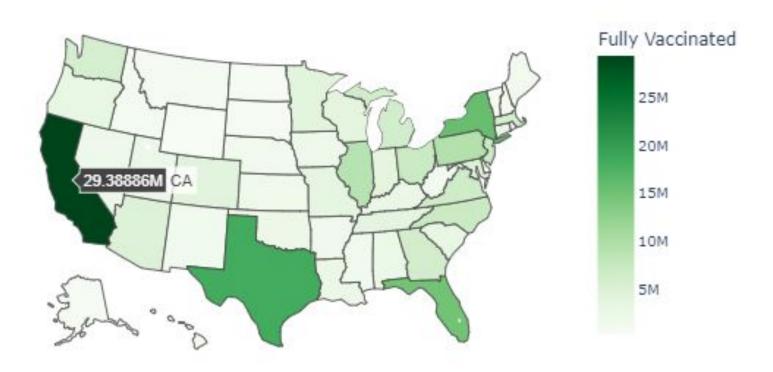


04

**CONCLUSIONS** 

# **People Fully Vaccinated**

COVID-19 Vaccine by State



# QUESTIONS?

CREDITS: This presentation template was created by Slidesgo, including icons by Flaticon, infographics & images by Freepik