

# Project Title: Covid 19 vaccination data. India compared to Germany

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Course: **Applied Data Science with Python**

## **Project description:**

Based on the dataset "India's Vaccination (1 billion glory doses)" I want to show the vaccination process in India. The dataset has 44 columns and approx. 2 years of data. It starts from 2020-01-30 until 2021-11-13. I will compare this data to the data acquired in Germany. The vaccination data for Germany will be received from the Robert-Koch-Institut and the Department of Health.

Dataset India:

<https://www.kaggle.com/sudalairajkumar/covid19-in-india> (vaccinations and deaths)

Dataset Germany:

<https://impfdashboard.de/daten> (vaccinations)

<https://npgeo-corona-npgeo-de.hub.arcgis.com> (total numbers and deaths)

API:

[https://opendata.arcgis.com/datasets/dd4580c810204019a7b8eb3e0b329dd6\\_0.geojson](https://opendata.arcgis.com/datasets/dd4580c810204019a7b8eb3e0b329dd6_0.geojson)

(Json File)

<https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4>

(Dashboard)

## **Files:**

India\_vaccination.csv

Germany\_vaccination.csv

RKI\_COVID19.json

## **Goal:**

Compare the vaccination progress in India and Germany. Investigate and correlate the vaccination progress to new cases and deaths per million inhabitants. The results should be presented as a python dashboard.

## **Algorithms:**

tba

## **Tools:**

conda

Jupyter notebook

## **modules:**

data handling & calculations: numpy

Visualization: matplotlib

Data handling: pandas

Dashboard: dash

JSON Handling: json

**data structures:**

python dictionary

numpy array

pandas dataframe