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

API:

<https://opendata.arcgis.com/datasets/dd4580c810204019a7b8eb3e0b329dd6_0.geojson> (Json File)

<https://experience.arcgis.com/experience/478220a4c454480e823b17327b2bf1d4> (Dashboard)

*dataset NewZealand:*

incidence: [https://nzcoviddashboard.esr.cri.nz/#!/](https://nzcoviddashboard.esr.cri.nz/" \l "!/)

vaccination: <https://github.com/minhealthnz/nz-covid-data>

Our World in Data:

<https://github.com/owid/covid-19-data/>

https://github.com/owid/covid-19-data/blob/master/public/data/README.md

**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: mathplotlib

Data handling: pandas

Dashboard: dash

JSON Handling: json

**data structures:**

python dictionary

numpy array

pandas dataframe