

JULIA POLIAK PETER ECKERT CHRISTOPH SENG



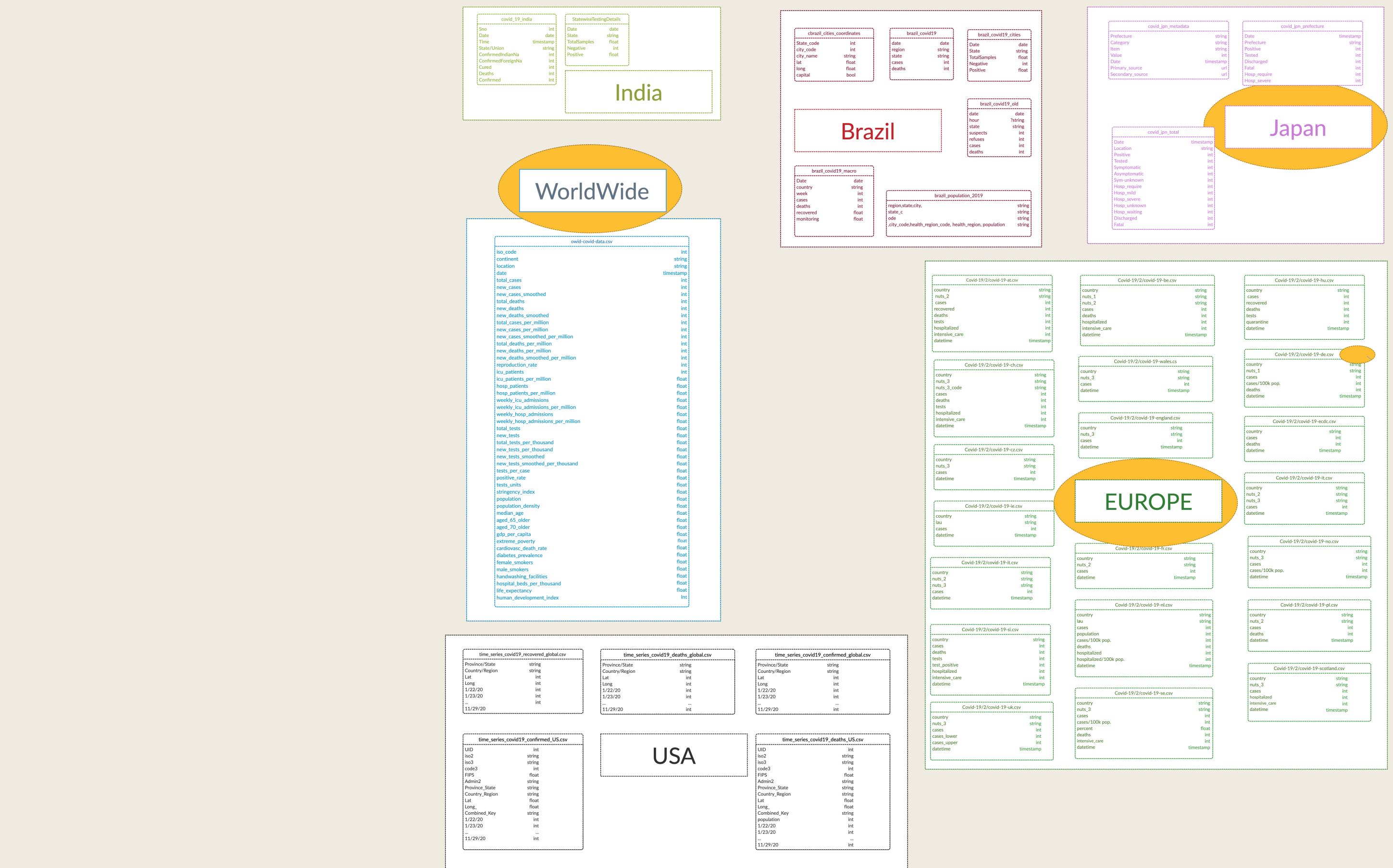
# A Web Data Dashboard for Covid-19 Analysis

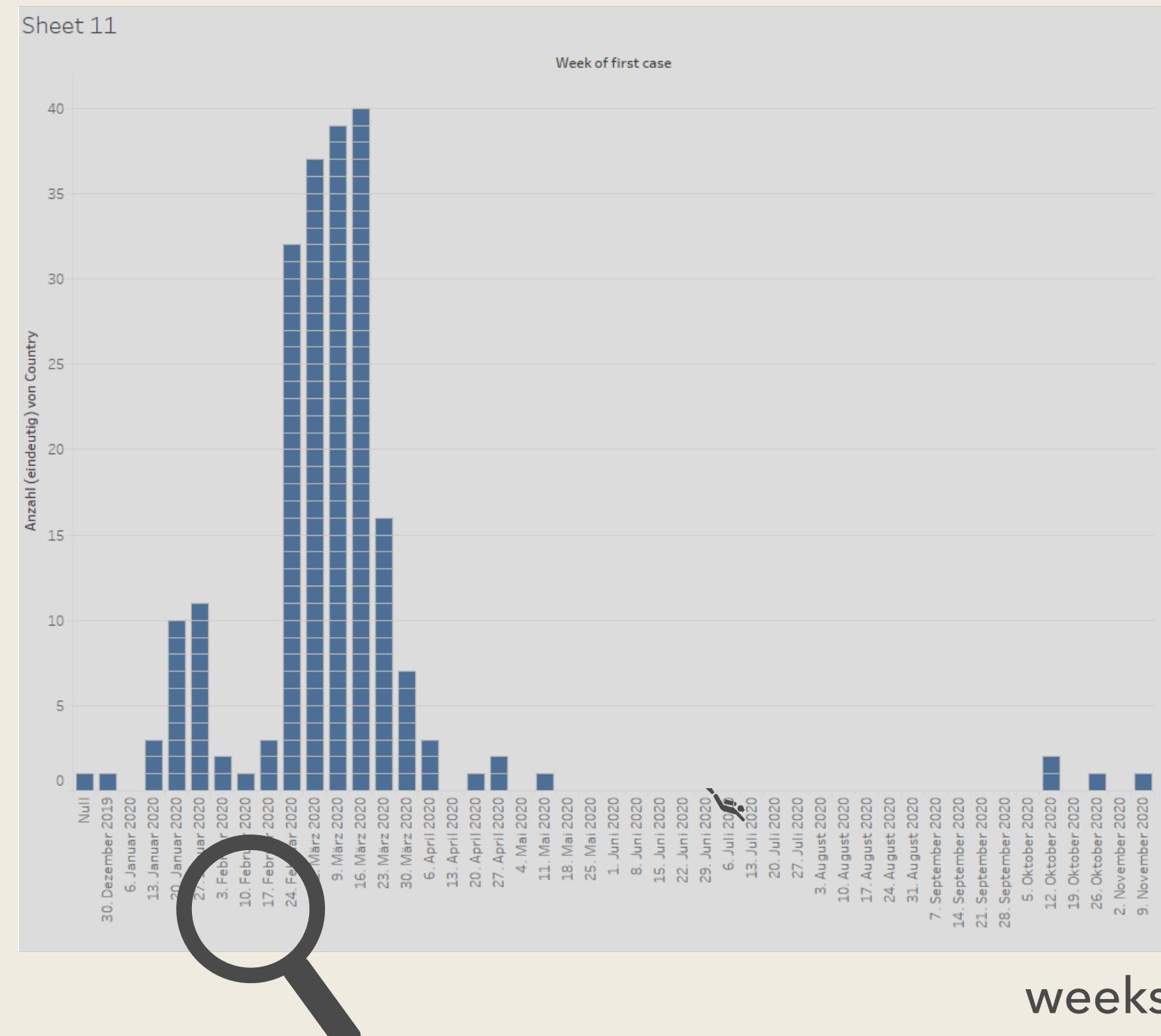
Certification Project Data Scientist

# Story

1. Data understanding and preprocessing - Julia Poliak
2. Data Analysis and first results - Julia Poliak
3. Prediction of future development - Peter Eckert
4. Web based Dashboard - Christoph Seng

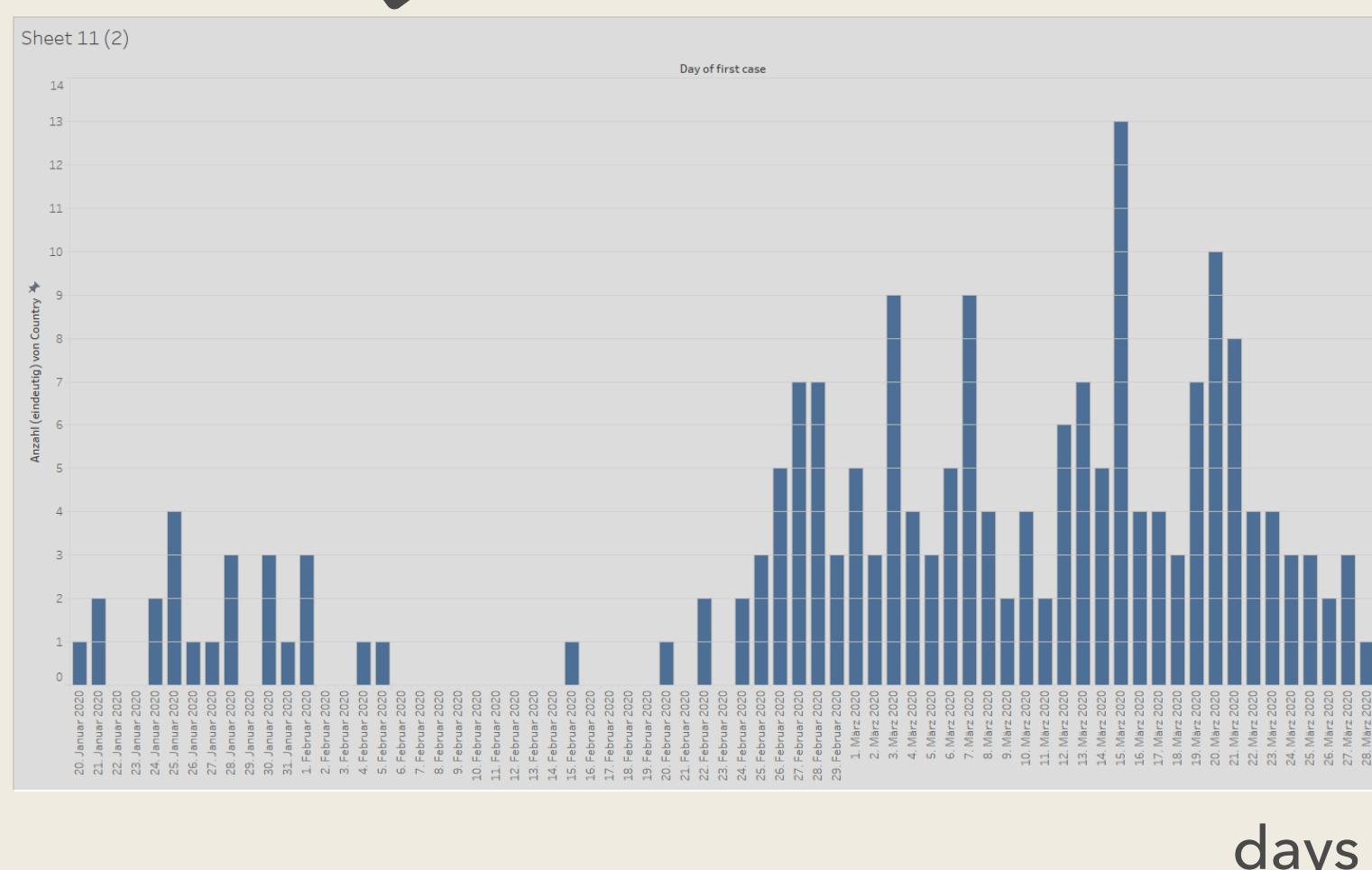
# ER Model of Datasets



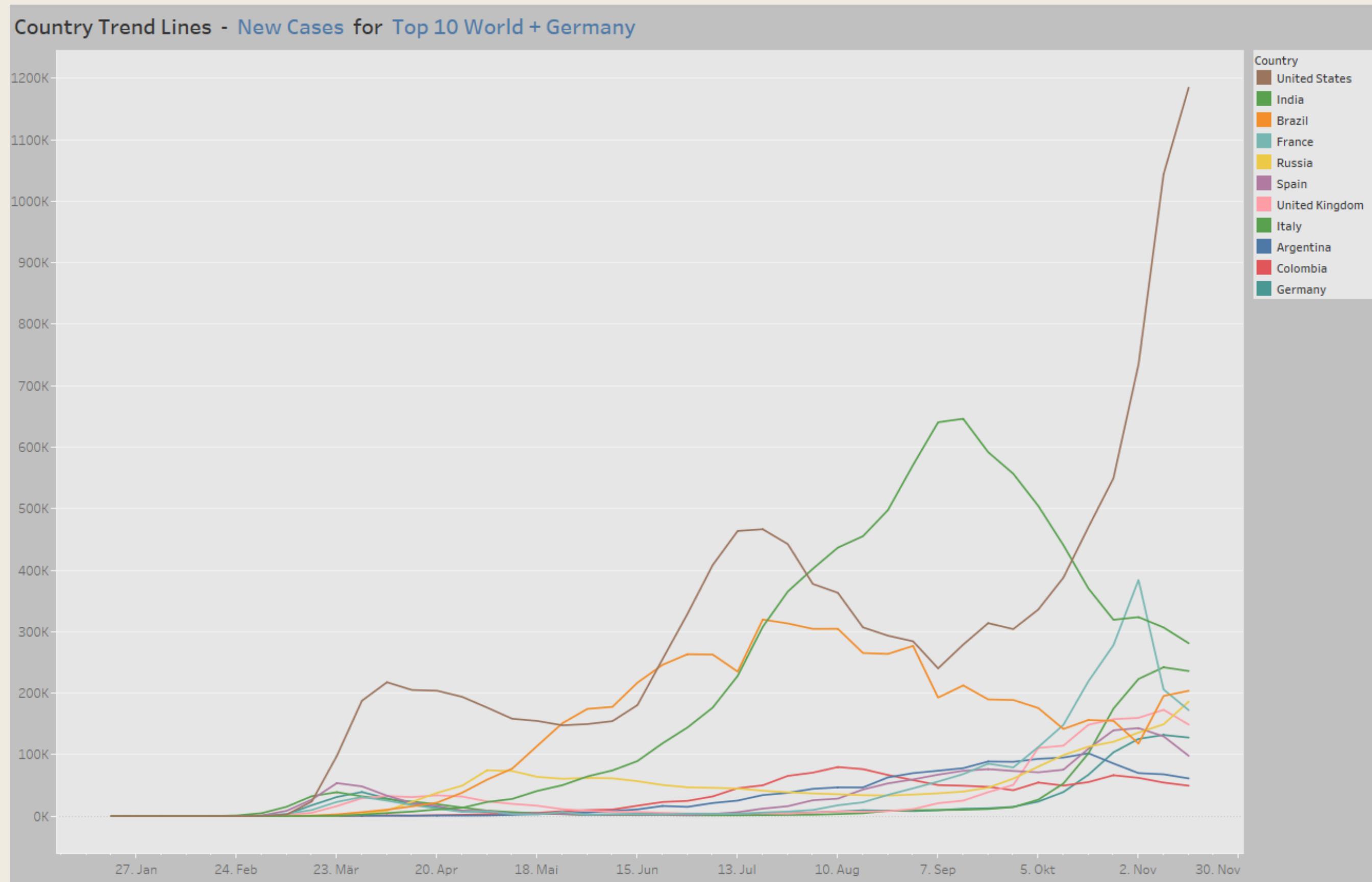


# Data Analysis

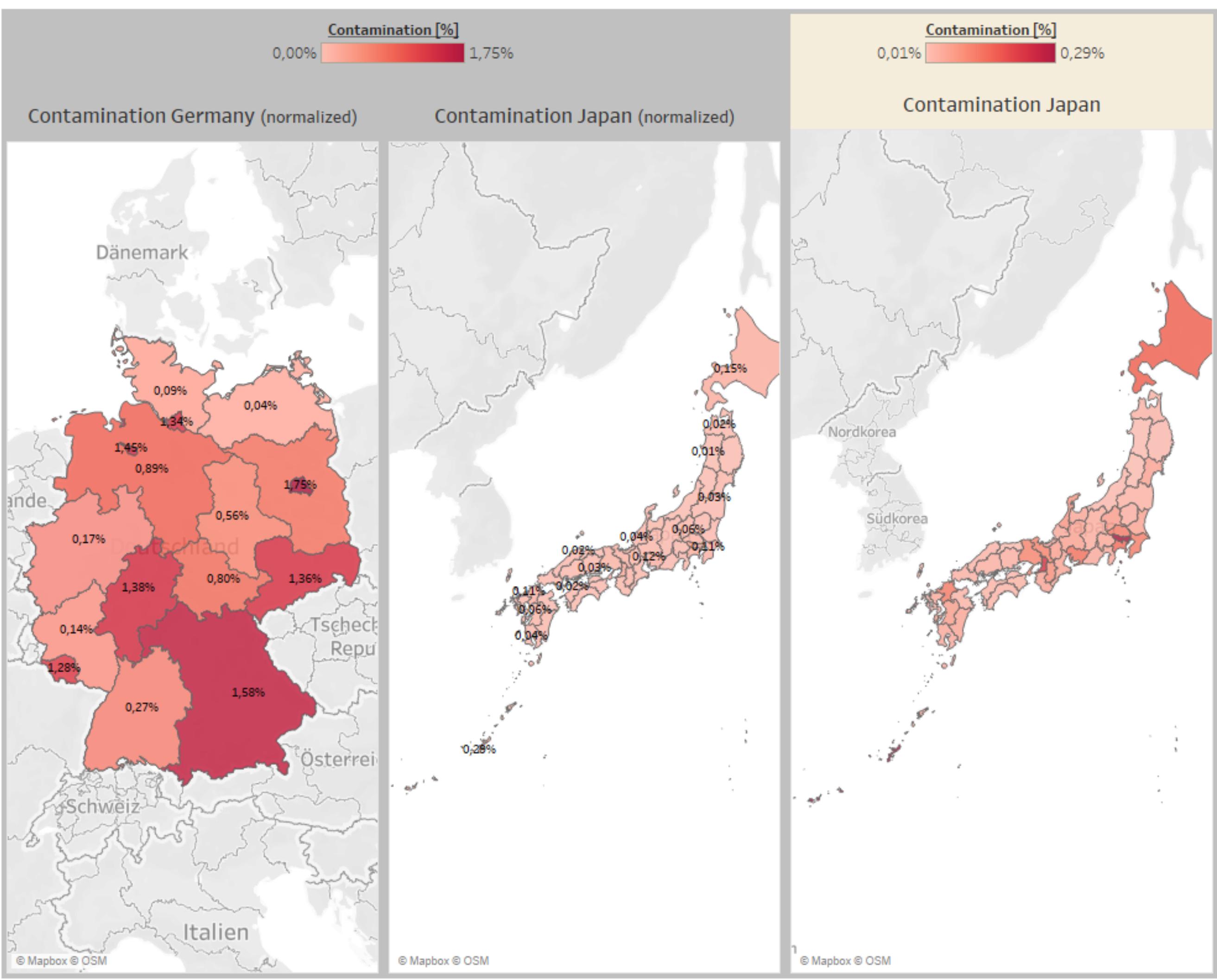
## start of contamination of each country



# Data Analysis



Comparison of countries by the highest amount of incidents





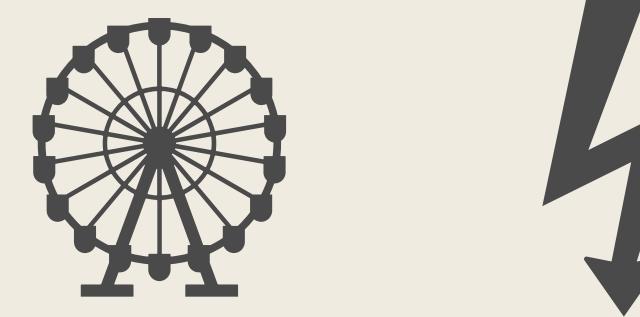
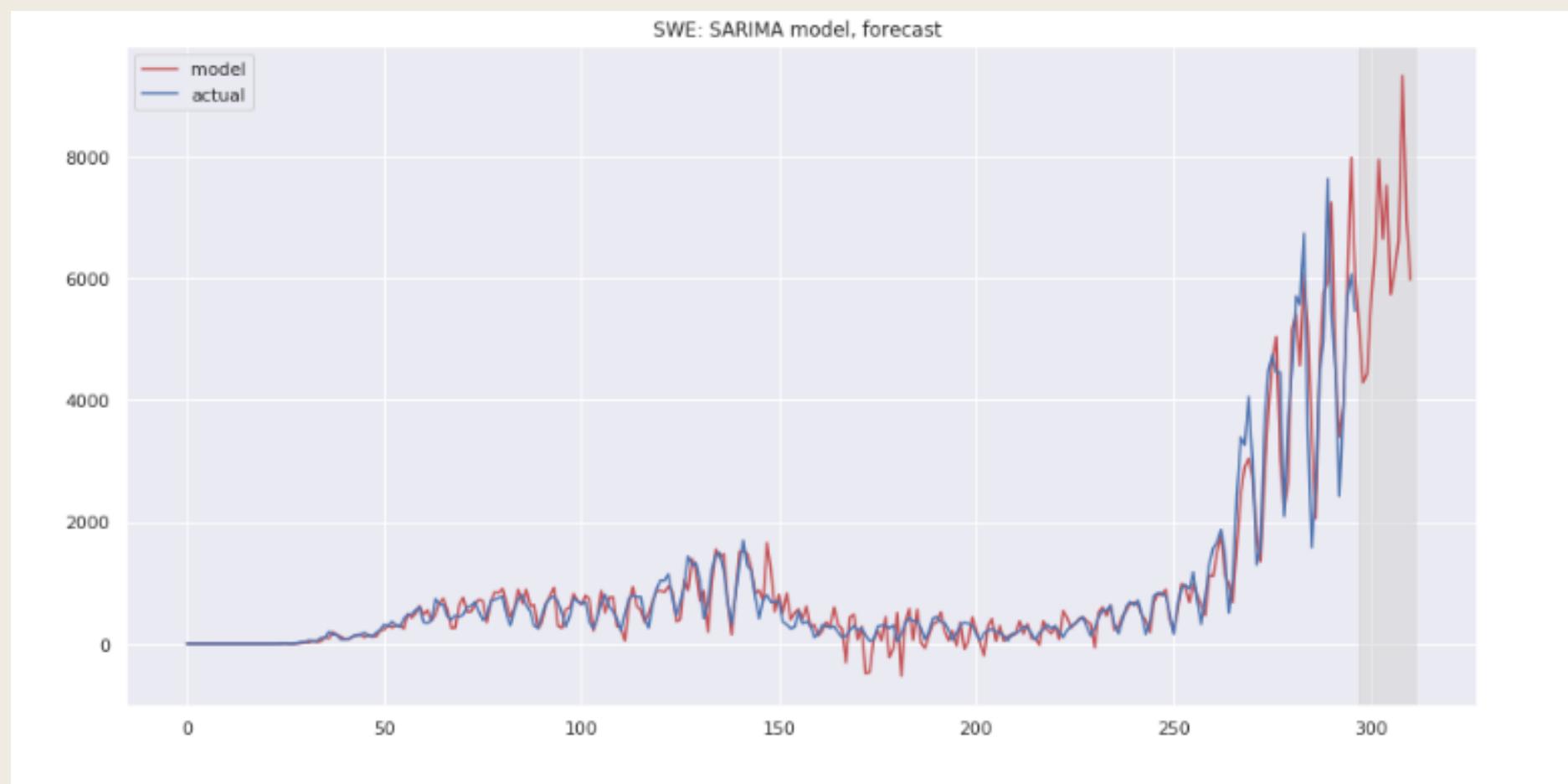
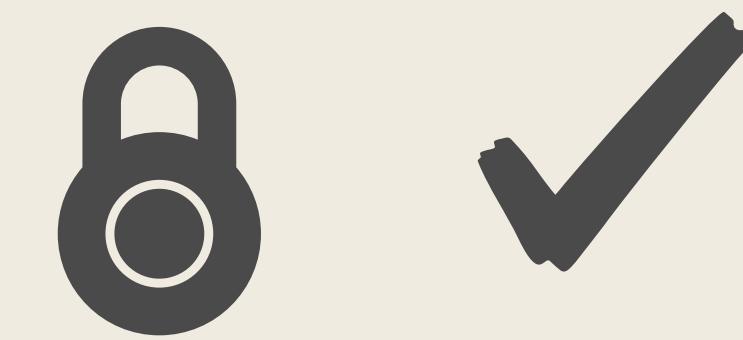
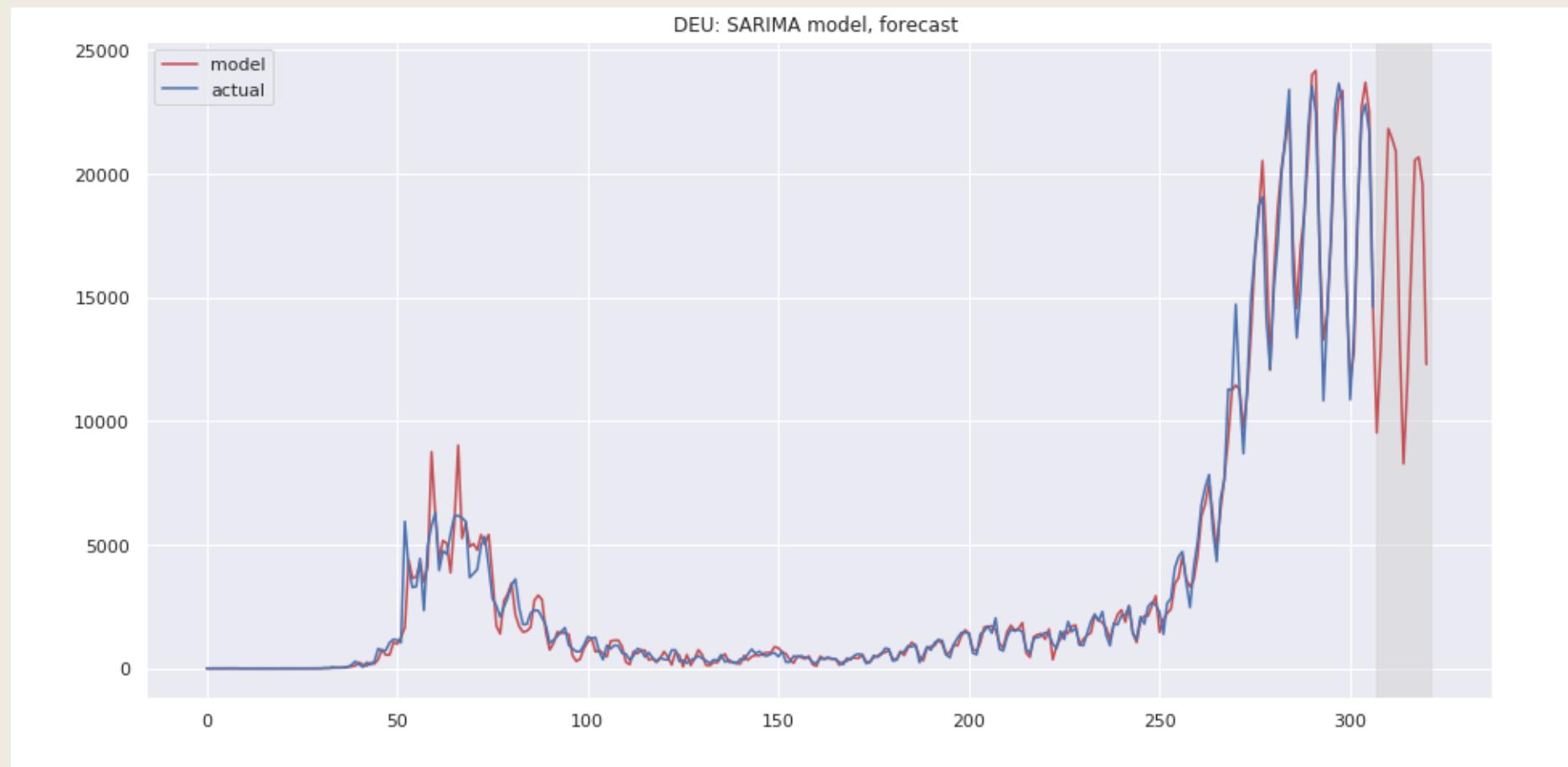
# Prediction

$$SARIMA \underbrace{(p,d,q)}_{non-seasonal} \underbrace{ (P,D,Q)_m }_{seasonal}$$

SARIMA notation

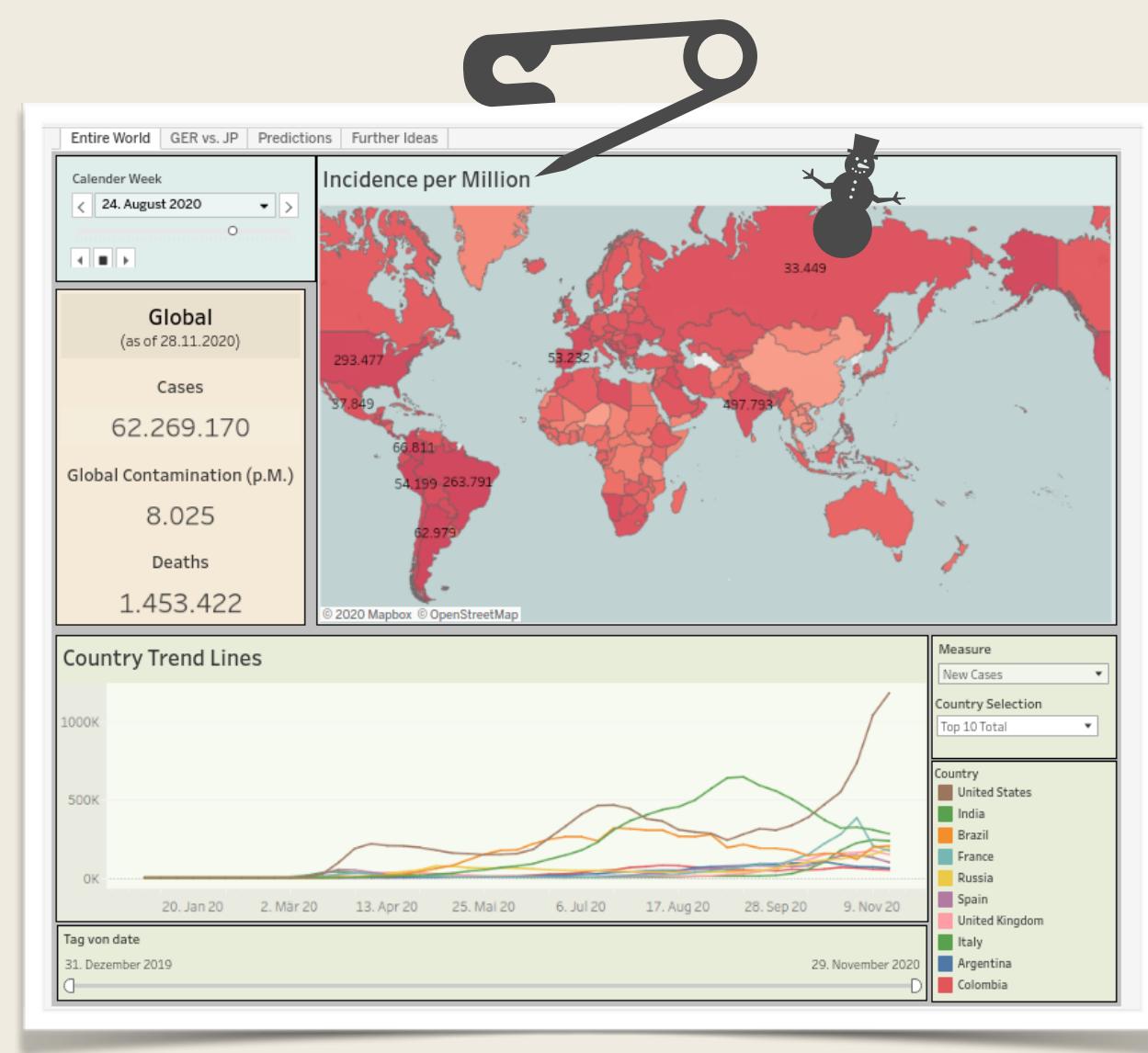
country	p	q	d	P	Q	D	s	actual: new cases 29.11.2020	predicted: new cases 7.12.2020
Germany	6	2	1	1	1	2	7	14611	8275
USA	0	2	1	1	1	4	24	154893	228418
Sweden	5	3	1	1	0	2	25	5464	6114

# Prediction





# Web Based Dashboard



[https://dub01.online.tableau.com/#/site/aidacovid/workbooks/524379?origin=card\\_share\\_link](https://dub01.online.tableau.com/#/site/aidacovid/workbooks/524379?origin=card_share_link)





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# Thanks to Max

and the AIDA Team

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