

Scalabe Computing
University of Groningen
2019

- Chriss Santi
- Jarvin Mutatina
- Hilary Oodo

## Algorithm & Data

#### Data

The Netherlands
weather data is
provided by the
public service KNMI
www.knmi.nl

We used One part of this data to feed our batch data

#### Batch and Stream

Split for

- Batch
- Streaming

#### Model

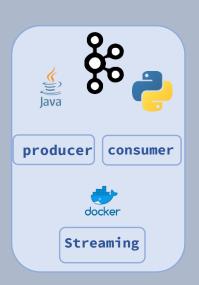
- Pre-processing
- Regression model fitting (Spark)
- Model saving (HDFS)

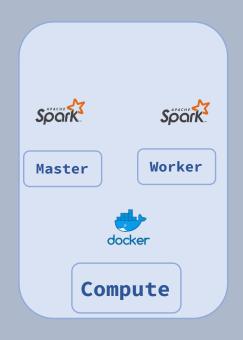
### Prediction

- Model fetching
- Prediction
- Results saving (Cassandra)

Source: Unplash









#### Architecture

We design our architecture in a way to increase the scalability of the components

The use of Docker allowed us to achieve this goal

scac-network-2019 (docker bridge network)



# **Technologies**













