Water demand forecasting based on weather forecast

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Datasets and streams
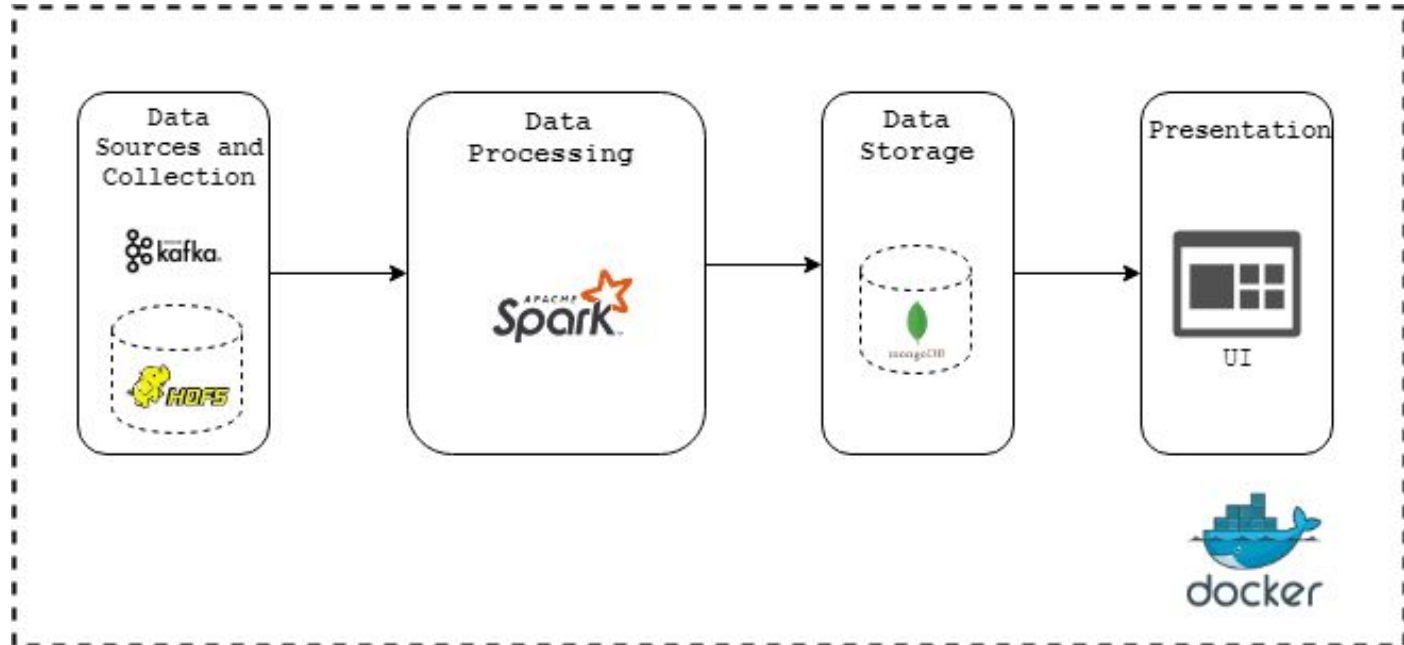
KNMI Dataset - Weather data from the Netherlands

https://projects.knmi.nl/klimatologie/uurgegevens/selectie.cgi

CBS - Water Usage data

https://opendata.cbs.nl/statline/portal.html?_catalog=CBS&_la=en&tableId=82883ENG&_theme=1033

Architecture

Technology Stack

- Docker - Deployment
- Apache Spark with PySpark
- Kafka - streaming
- MongoDB/ Cassandra - Data storage
- Python and or Java
- HTML & D3.js / chart.js - Visualisation

Weekly Plan

Week 1	Design project architecture
Week 2	Build Infrastructure
Week 3	Core data processing Algorithm
Week 4	Expansion to historical and streaming data