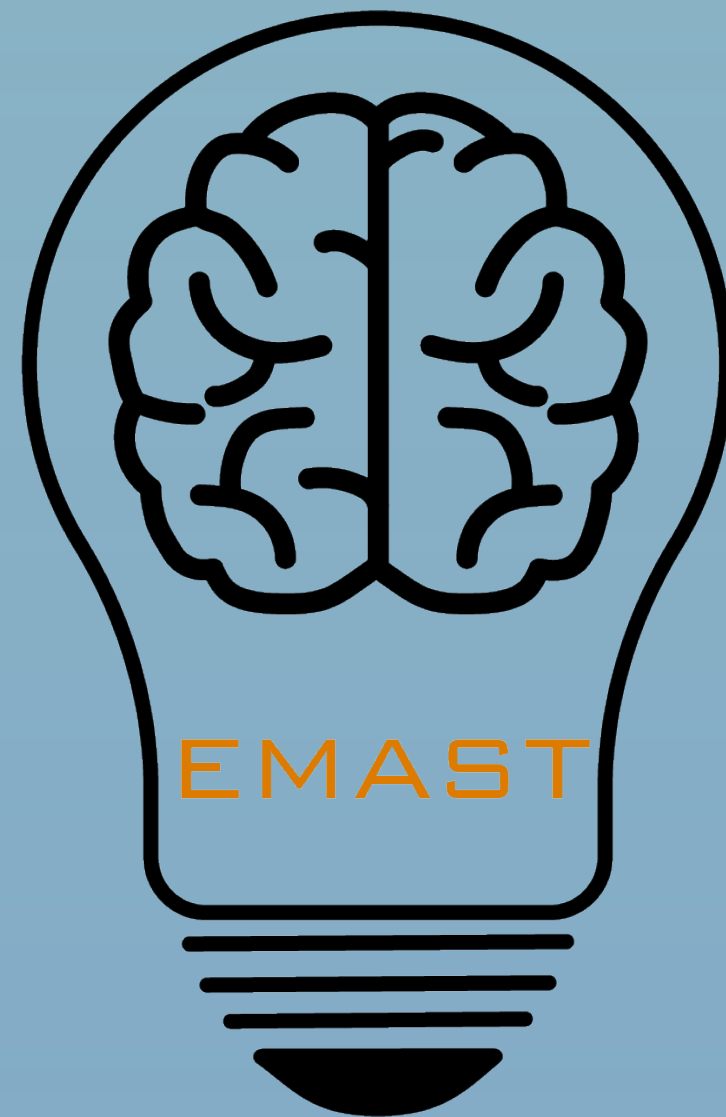


EMAST

The problem

The Stadtwerke Klagenfurt currently only have static energy tariffs. There is data from around 320 smart meters (which transmit quarter-hour values) and from two energy markets, but this data is not yet used to create dynamic tariffs. The two energy markets are the futures market and the spot market, which determine the electricity price.



The solution

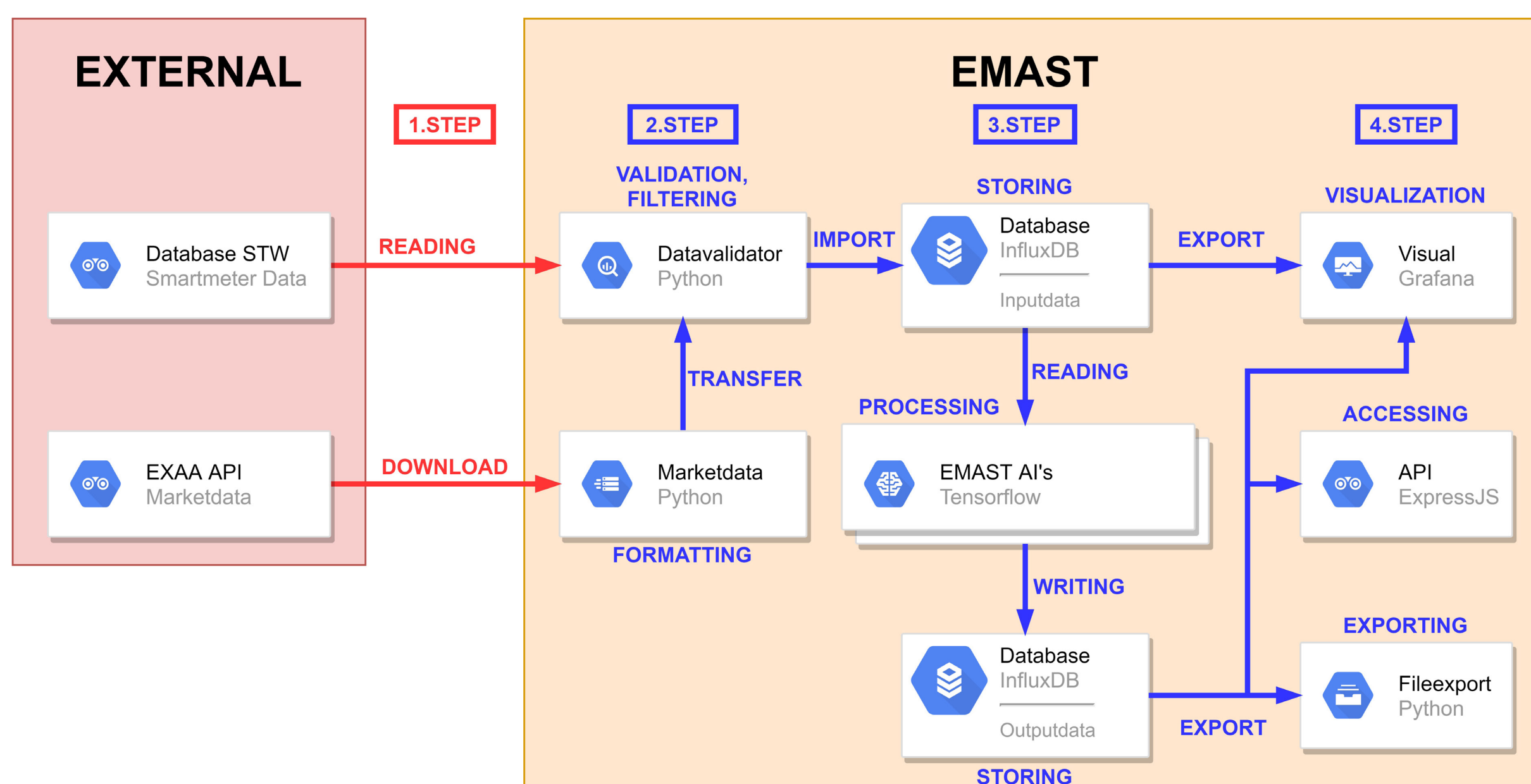
The quarter-hourly values from smart meters in Klagenfurt and energy market prices are analyzed using algorithms and artificial intelligence. This creates an improved tariff for the end user and the Stadtwerke Klagenfurt benefit from improved electricity purchases. The result is then saved in a database and is available as a file.

Implementation

The flow of EMAST can be broken down in 4 steps:

- 1.Step: Downloading information from APIs and reading data from the STW database
- 2.Step: Formatting the data from web and validate all data.
- 3.Step: Store the input data, process it through the AI and store the output.
- 4.Step: Visualize the output and input, make it accessible through an API and export it as a file.

Flow Diagram: Energy market AI for smart meter tariffs



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