TECHNOLOGY OFFER

Features & Benefits

- Build on open source components (no license-fees)
- Integration with broad range of process control systems possible
- Applicable for broad range of spectrometers
- No software installation at the client side (browser only)
- Handle any number of models for different target values in different process phases
- Zero time model deployment
- Customizable to use your statistics language of choice (Matlab, Python, R, ...)

Users & Application

- Chemical industry
- In- and On-line chemometric PAT applications
- Chemometric applications with many different target values, product variants, process phases

Status – our offer

- Tested in production environment
- Customization to your environment required
- Collaboration with spectrometer manufacturer beneficial
- Individual license agreement

Contact data

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imPACts
### Industrial Methods for Process Analytical Chemistry

Chemometrics as a Service (ChemSaaS)

Build, deploy and maintain your chemometric models from your browser

With the growing use of chemometric modelling in industry (e.g., for process control), also the number of computational models, that are employed for such tasks, increases. This leads to enormous maintenance efforts, although many of these maintenance steps could be carried out automatically. We offer a light-weight web based environment – Chemometrics as a Service (ChemSaaS) – that allows to specify, train, deploy, and efficiently maintain computational models throughout their entire lifecycle from within your browser.

Technology provided by the spectrometer manufacturers very much drives the development, deployment and maintenance workflows of chemometrics based PAT solutions.

Nevertheless, hardly any defined tool support for maintenance is provided. Hence, for situations where different models have to be used, e.g. for different spectrometers,

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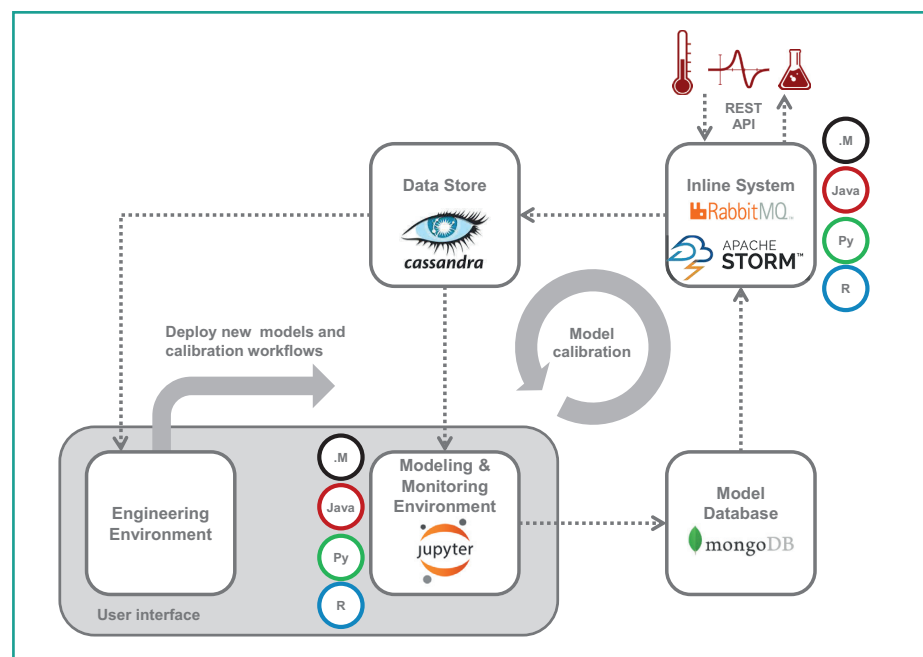
different products, different process phases model maintenance suddenly becomes a major effort. To remedy this problem we developed a service oriented modelling environment, which is independent from the actual measurement technology and the used process control system (technologically solved by a chemometrics gateway). Our "Chemometrics as a Service (ChemSaaS)" solution provides

- an engineering environment for the statistical expert for building the models (based on data from the included data store),

- a scaleable runtime environment, which processes the measurement data (typically spectra) with any kind of model loaded from the model database with very low latency, and

- a modelling and monitoring environment which allows the educated process operator to monitor, recalibrate and redeploy (into the model data base) the models which control his process.

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