

Data Mining, Visualization, and Modelling in the Pharmaceutical Industry using SEEQ

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With improved instrumentation and automation of plants in the process industry, the amount of data generated is constantly increasing. This also increases the requirements for data analysis and data interpretation. Visualization of data, online trending and data modelling therefore present a constant challenge for people working with the data: process engineers, chemists, biotechnologists, operators, data scientist and many more. These increasing data requirements are reflected by the large variety of tools available for data analytics.

In the pharmaceutical industry the focus of data analytics is on visualization and data mining. Visualization of data from complex processes enables monitoring and early detection of process deviations, while data mining is necessary for process optimization and troubleshooting.

The software SEEQ is an easy to use tool to accomplish the different tasks of data visualization. Advanced analytics are implemented by running complex calculations and different modelling approaches in connection with easily configurable dashboards to enable a fast evaluation and interpretation of the data.