

Training session PythonTM language for spectral data analysis

Learn how to analyze the spectroscopic data using PythonTM scripts

Objectives

This training session in the application of the Python[™] language for spectroscopic data analysis is intended for people wishing to analyze their own data with the Python[™] language from existing scripts.

During the training, emphasis is placed on the practical use of data analysis methods and the different steps necessary to analyze the data with PythonTM language.

Application exercises are proposed with PythonTM scripts provided by Ondalys. This session will give you solid basis to use PythonTM scripts autonomously for

- > Exploratory data analysis
- > Quantitative prediction
- > Spectroscopic pre-processing



Information

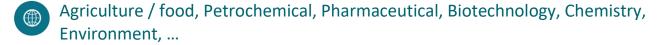




- R&D, quality control, product development, process optimization, ...
- *i* In-house session

All data from processes

Researchers, scientists and engineers



Program

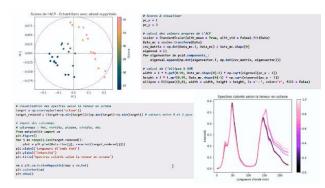
Half day 1: Introduction to Python™ for Machine Learning

- > Introducing some Python[™] libraries for Machine Learning
- > Using the Anaconda distribution
- > Using Notebook (Jupyter, JupyterLab)
 - > Practice



Day 2: Dataset application exercises with existing Python[™] scripts

- > Principal Component Analysis (PCA)
- > Linear pls multivariate regression models (PLS)
- > Pre-processing of spectroscopic data
- > Conclusions on multivariate data analysis
- > Questions and answers on uncontrolled points
- > Prior learning assessment
- > Satisfaction questionnaire



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