

Training session

Machine Learning methods

Discover the most common methods of Machine Learning

Objectives

This training session is intended for people wishing to:

- Discover advanced Machine Learning methods
- Go further in data analysis
- Compare the different advanced data processing methods

During the training, the method principles are introduced by a geometric approach. Emphasis is placed on the practical use of the method and the interpretation of the results.

Application exercises are proposed for each method. The training can be held on various Chemometrics software: SOLO or PLS_Toolbox® (Eigenvector Research Inc).

Information



Basics of data analysis (PCA, PLS) are required



R&D, quality control, product development, process optimization, ...



All types of data



Agriculture / food, Petrochemical, Pharmaceutical, Biotechnology, Chemistry, Environment, ...



2 days



In-house sessions



Researchers, scientists and engineers

PLS_Toolbox

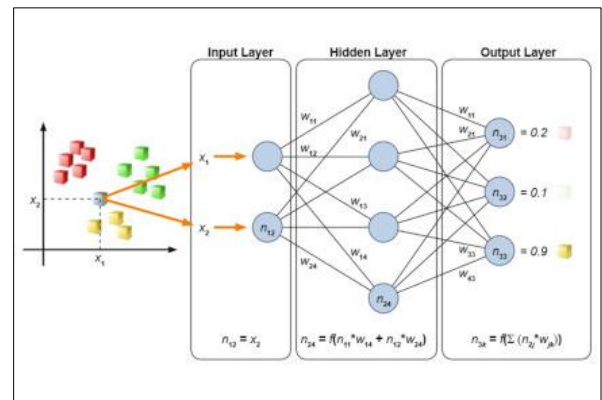
Solo

Program

- > Reminder of linear methods
- > Some methods for handling weak nonlinearities
- > Local regression (LWR - Locally Weighted Regression)
- > Support Vector Machines (SVM)
- > Artificial neural networks (ANNDL)
- > Regression trees: Boosted Regression Trees (XGB)
- > Visualization and compression with UMAP and t-SNE
- ✓ Application on data set and software



- > Questions and Answers
- > Evaluation quiz
- > Satisfaction survey



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If one of your employees has a disability and needs special support, please let us know so that we can adapt the training accordingly.