

**Title:** Introduction to Machine Learning for Material Science with Orange.

**Description:** Herein, we propose the implementation of several Machine Learning Techniques for the study and prediction of the physicochemical properties of nanomaterials employing the Orange data mining software (<https://orange.biolab.si/>). In this tutorial, we will use supervised learning methods such as Artificial Neural Networks and K-nearest neighbors regressor to predict the optical properties of gold nanostructures. This methodology can be extended to the experimental field to improve the synthesis of nanomaterials.

**Minimum requirements:** You must have installed Orange 3.26.0 and Python 3.8 and scikit-learn 0.22 (<https://scikit-learn.org/stable/index.html>).