



Machine Learning and Data Mining Project

Course level: Master [M2]

Track: MLDM

ECTS Credits: 6

Course instructors: Marc Sebban (**UJM, Saint- Etienne**)

Education period: Third semester **Language of instruction:** English

Syllabus:

The aim of this 3 months project is to work by teams of 3-4 students on a machine learning and data mining project that requires the use of the skills acquired during the whole MLDM master program.

As an example, in 2023-2024, the MLDM students addressed the topic “*Physics-informed Machine Learning*” by learning models combining data and physical knowledge coming from surface engineering. The goal was to discover Partial Differential Equations explaining the underlying physics of experimental data in laser-matter interaction.

The results of this project are presented in January by the MLDM teams during a pitch session of the [Manutech Sleight](#) Science Event.

Additional information/Contacts:

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