

Introduction to Machine Learning



En bref

- > **Langues d'enseignement:** Anglais
- > **Ouvert aux étudiants en échange:** Oui

Présentation

Description

The course initiates students to Machine Learning methods and their applications. The students will learn the different steps involved in the design of ML methods to answer questions from a dataset. Further, through formal definitions and a number of examples, students will see the differences between different models and learn when and how to apply them.

Objectifs

The core objective of the course is to initiate student to Machine Learning methods and their applications and initiates them to how to develop a model from scratch. At the end of the course, students should be capable of independently design models to answer questions given a dataset.

Heures d'enseignement

CM	Cours Magistral	13,5h
TD	Travaux Dirigés	13,5h

Pré-requis obligatoires

* Programming in Python and its core data libraries (NumPy and Pandas)

* Courses in probability and statistics

Plan du cours

- * Supervised and unsupervised methods
 - * Linear regression
 - * Logistic regression
 - * Naive Bayes
 - * Nearest Neighbor / Threes / Ensemble
 - * Clustering
 - * PCA
 - * Deep learning
-

Compétences visées

- * Understand, clean, and prepare a dataset
 - * Design features
 - * Train and evaluate ML models
-

Liste des enseignements

	Nature	CM	TD	TP	Crédits
Introduction to Machine Learning CM	CM	13,5h			
Introduction to Machine Learning TD	TD		13,5h		

Infos pratiques

Contacts

Responsable du cours

Francesco Bronzino

✉ francesco.bronzino@univ-smb.fr

Lieux

➤ Anancy-le-Vieux (74)

Campus

› Anancy / campus d'Anancy-le-Vieux