

High Dimensional Statistics and Deep Learning





Introducing

Objectives

At the end of this module, the student will have understood and be able to explain (main concepts):

-How to use deep learning methods for classification in high dimension

-Classification of media or images

-Estimation of the prediction error

-Dimension reduction by projection onto orthonormal bases

-Anomaly detection

-Application of deep learning methods on real data set

At the end of this module, the student should be able to:

-Fit a deep neural network for media or image classification and regression

-Apply anomaly detection algorithms

-Implement deep learning methods in high dimension on real data sets with Python libraries.

Necessary prerequisites

Statistical modelling Software for statistics

Location(s)

Practical info

Q Toulouse