



UNIVERSITÀ  
DEGLI STUDI DI MILANO-BICOCCA

## COURSE SYLLABUS

### Deep Learning

2324-114R007

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#### Title

Deep Learning

#### Teacher(s)

Elisabetta Fersini

#### Language

English

#### Short description

- Background concepts
- Training Deep Networks:
  - \* Objective functions
  - \* Activation Functions
  - \* Regularization
  - \* Gradient-based optimization
- Focus on Deep Networks:
  - \* Autoencoders

- \* Variational Autoencoders
- Practical Methodology:
  - \* Performance Metrics and baseline models
  - \* Selecting hyper-parameters
- Deep Learning in Practice: Tools, Tips and Tricks

## **CFU / Hours**

2 CFU, 16 hours

## **Teaching period**

July 2024

## **Sustainable Development Goals**

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