

# COURSE DETAIL

## MACHINE LEARNING

**Country**

Italy

**Host Institution**

University of Commerce Luigi Bocconi

**Program(s)**

Bocconi University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Statistics Computer Science

**UCEAP Course Number**

116

**UCEAP Course Suffix****UCEAP Official Title**

MACHINE LEARNING

**UCEAP Transcript Title**

MACHINE LEARNING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course offers an introduction to the fundamental concepts and tools of modern machine learning techniques. These tools are at the root of data science and data analytics, which are among the main pillars of the education program. The course discusses topics including the theory of machine learning; probability tools; statistical interference and regression techniques; unsupervised methods such as Principal Component Analysis, hierarchical cluster, and k-means; supervised methods such as K-nearest neighbors, Support Vector Machines, and Multi-Layer Neural Networks; and associative memories. The course consists of lectures, individual and group assignments, and participation in external competitions. The course requires students to have background knowledge in Python programming, elementary calculus, and basic statistics as a prerequisite.

## Language(s) of Instruction

English

## Host Institution Course Number

30412

## Host Institution Course Title

MACHINE LEARNING

## Host Institution Course Details

## Host Institution Campus

University of Commerce Luigi Bocconi

## Host Institution Faculty

## Host Institution Degree

## Host Institution Department

Decision Sciences

## Course Last Reviewed

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