

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 inference 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 Campus

University of Commerce Luigi Bocconi

Host Institution Faculty

Host Institution Degree

Host Institution Department

Decision Sciences

[Print](#)