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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