

# COURSE DETAIL

## MACHINE LEARNING AND DATA MINING

**Country**

Italy

**Host Institution**

University of Bologna

**Program(s)**

University of Bologna

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

167

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

MACHINE LEARNING AND DATA MINING

**UCEAP Transcript Title**

MCHN LRN & DATA MIN

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## **Course Description**

This course is part of the Laurea Magistrale degree program and is intended for advanced level students. Enrollment is by permission of the instructor. At the end of the course the student knows and understands: - the motivation and the components of the Data Mining process; - the general concepts, technologies and methodologies of Data Warehouse, OLAP and Data Lake, as enabling factors of the Data Mining process; - the principles and the most relevant use cases of a wide set of Machine Learning algorithms which are used to extract relevant and actionable information from large amounts of data. At the end of the course the student is able to: - design the main steps of a Data Mining process - choose the Machine Learning methods best suited for the process - evaluate the quality of the result in order to support strategic and operational decisions. The course is divided into two parts: Data Mining and Machine Learning.

### **Language(s) of Instruction**

English

### **Host Institution Course Number**

B2125,95631

### **Host Institution Course Title**

MACHINE LEARNING AND DATA MINING M

### **Host Institution Course Details**

<https://www.unibo.it/en/study/phd-professional-masters-specialisation-schools-a...>

### **Host Institution Campus**

BOLOGNA

### **Host Institution Faculty**

### **Host Institution Degree**

LM in COMPUTER ENGINEERING

**Host Institution Department**  
COMPUTER SCIENCE AND ENGINEERING

**Course Last Reviewed**

2024-2025

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