

# COURSE DETAIL

## MACHINE LEARNING

**Country**

Denmark

**Host Institution**

University of Copenhagen

**Program(s)**

University of Copenhagen

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

141

**UCEAP Course Suffix**

A

**UCEAP Official Title**

MACHINE LEARNING

**UCEAP Transcript Title**

MACHINE LEARNING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

### **Course Description**

The course introduces basic theory and algorithms of machine learning. Topics include: supervised learning setting; unsupervised learning setting; concentration of measure inequalities; analysis of generalization in classification; algorithms; assumptions behind the algorithms taught in the course, their implications, and common pitfalls; and correlation versus causality. The course assumes solid math and programming skills, including knowledge of linear algebra, calculus, probability theory, discrete mathematics, and programming.

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

English

### **Host Institution Course Number**

NDAK22000U

### **Host Institution Course Title**

MACHINE LEARNING A (MLA)

### **Host Institution Campus**

### **Host Institution Faculty**

Science

### **Host Institution Degree**

Master

### **Host Institution Department**

Computer Science

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