

## COURSE DETAIL

### APPLICATIONS OF MACHINE LEARNING

**Country**

Netherlands

**Host Institution**

Utrecht University

**Program(s)**

Utrecht University

**UCEAP Course Level**

Upper Division

**UCEAP Subject Area(s)**

Computer Science

**UCEAP Course Number**

109

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

APPLICATIONS OF MACHINE LEARNING

**UCEAP Transcript Title**

APP MACHINE LEARNIN

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course focuses on the applications of machine learning algorithms to real-world questions. The overall aim is to provide theories, techniques, tools, and practical experience for applying machine learning to tackle data science problems. The course lectures cover five parts: essential concepts and techniques of machine learning, classification, regression, and clustering; application - outlier detection; application - predictive process mining; application - natural language processing; and application - reinforcement learning. For each of the four application areas, students work in a team to conduct an assignment that applies machine learning algorithms to a real-world dataset.

### Language(s) of Instruction

English

### Host Institution Course Number

INFOB3APML

### Host Institution Course Title

APPLICATIONS OF MACHINE LEARNING

### Host Institution Campus

Utrecht University

### Host Institution Faculty

Science

### Host Institution Degree

### Host Institution Department

Informatics

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