COURSE DETAIL

INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Country
Norway

Host Institution
University of Oslo

Program(s)
University of Oslo

UCEAP Course Level
Upper Division

UCEAP Subject Area(s)
Computer Science

UCEAP Course Number
120

UCEAP Course Suffix

UCEAP Official Title
INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

UCEAP Transcript Title
AI&MACHINE LEARNING

UCEAP Quarter Units
8.00

UCEAP Semester Units

5.30

Course Description

This course provides a basic introduction to machine learning (ML) and artificial intelligence (AI). With an algorithmic approach, it offers a practical understanding of the methods that are reviewed, not least through their own implementation of several of the methods. The course covers supervised classification based on, for example, artificial neural networks (deep learning), in addition to unsupervised learning (cluster analysis), regression, optimization (evolutionary algorithms and other search methods) and reinforcement learning, as well as design of experiments and evaluation. The course also provides an introduction to philosophical fundamental problems and ethical issues related to ML/AI, in addition to the history of the field.

Language(s) of Instruction
English

Host Institution Course Number
IN3050,IN4050

Host Institution Course Title
INTRODUCTION TO ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

Host Institution Course Details
https://www.uio.no/studier/emner/matnat/ifi/IN3050/index-eng.html

Host Institution Campus

Host Institution Faculty
Mathematics and Natural Sciences

Host Institution Degree
Bachelor

Host Institution Department
Informatics

Course Last Reviewed
2024-2025

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