

# COURSE DETAIL

## FAIR AND TRANSPARENT MACHINE LEARNING METHODS

**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**

126

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

FAIR AND TRANSPARENT MACHINE LEARNING METHODS

**UCEAP Transcript Title**

MACHINE LEARNING

**UCEAP Quarter Units**

6.00

**UCEAP Semester Units**

4.00

## Course Description

This course focuses on the technical solutions needed to improve the fairness, accountability, and transparency of machine learning models. It reflects on the benefits and risks of machine learning models to develop methods to detect and mitigate biases and create solutions to make the inner workings of models more transparent. Topics include statistical notions of fairness and bias; the intended usage of machine learning models; learning fair representations; model interpretability and transparency; generating and evaluating model explanations; and probing representations for bias. Knowledge of machine learning (probability theory, linear algebra, classification) and programming is a prerequisite.

## Language(s) of Instruction

English

## Host Institution Course Number

NDAK22005U

## Host Institution Course Title

FAIR AND TRANSPARENT MACHINE LEARNING METHODS

## Host Institution Course Details

<https://kurser.ku.dk/course/ndak22005u/2022-2023>

## Host Institution Campus

## Host Institution Faculty

Faculty of Science

## Host Institution Degree

Master

## Host Institution Department

Department of Computer Science

## Course Last Reviewed

2022-2023

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