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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