

COURSE DETAIL

COGNITIVE ALGORITHMS

Country

Germany

Host Institution

Technical University Berlin

Program(s)

Technical University Berlin

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

102

UCEAP Course Suffix**UCEAP Official Title**

COGNITIVE ALGORITHMS

UCEAP Transcript Title

COGNITIVE ALGORTHMS

UCEAP Quarter Units

5.50

UCEAP Semester Units

3.70

Course Description

The lecture covers elementary concepts in machine learning and their application on real data with a special focus on methods that are simple to implement. The course alternates lectures and practice sessions. In the practice sessions, students implement and apply machine learning algorithms on real data in Python. Topics include: supervised learning (linear regression techniques, linear classification, kernel based regression), unsupervised learning (principal component analysis, clustering), and model selection.

Language(s) of Instruction

English

Host Institution Course Number

0434 L 502

Host Institution Course Title

COGNITIVE ALGORITHMS

Host Institution Course Details

<https://uceap.sharepoint.com/:b:/s/DocumentLibrary/EVO2cT9Ls-5HpDgO8RM-o1cByjSn...>

Host Institution Campus

FAKULTÄT IV ELEKTROTECHNIK UND INFORMATIK

Host Institution Faculty

Host Institution Degree

Host Institution Department

Institut für Softwaretechnik und Theoretische Informatik

Course Last Reviewed

2023-2024

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