

COURSE DETAIL

FUNDAMENTALS OF MACHINE LEARNING

Country

United Kingdom - England

Host Institution

University of Sussex

Program(s)

University of Sussex

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Computer Science

UCEAP Course Number

123

UCEAP Course Suffix**UCEAP Official Title**

FUNDAMENTALS OF MACHINE LEARNING

UCEAP Transcript Title

MACHINE LEARNING

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

This course introduces the important field of machine learning. Students use a systematic approach, based on the following three key ingredients: tasks, models, and features. The course introduces both regression and classification, and studies emphasise concepts such as model performance and learnability. As part of this course students learn techniques such as linear regression, single and multiple layer perceptron classification, kernel-based models (including RBF and SVM), decision tree models and random forest, and Naïve Bayes classification and k-means clustering. Students are also introduced to techniques for pre-processing the data (including PCA).

Language(s) of Instruction

English

Host Institution Course Number

G6061

Host Institution Course Title

FUNDAMENTALS OF MACHINE LEARNING

Host Institution Campus

University of Sussex

Host Institution Faculty

Host Institution Degree

Host Institution Department

Informatics

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