Minor in Mathematical Machine Learning

Description

The Minor concept

A minor gives you the opportunity of having a second specialization in your degree. The minor is a bundle of three to four electives that can be chosen separately but if chosen together rewards a minor.

Purpose

The minor provides the student with analytical tools to examine the increasing amount of data which comes up within all industries and in the public sector. Statistical and probabilistic methods have become more and more widely used as analytical tools and are also essential components of machine learning. Learning from data and accounting for the inherent uncertainty when making predictions are essential for the understanding of complex systems.

Structure

The below table lists the structure and the ECTS credits of the individual courses. The course descriptions are available in the online course catalogue. Direct links are inserted in the below table.

Course	ECTS
Predictive Modeling and Machine Learning	7.5
Multivariate Statistical Models	7.5
Probabilistic Machine Learning	7.5

Content

Strong quantitative foundations to extract information from data have become increasingly important now and in the future. The minor consists of three to four courses that each take up methods for mathematical statistical and/or econometric analysis of data from businesses. The courses are designed to make the student confidential with advanced statistical modeling and to give a deep and comprehensive knowledge of modern methods for inference and prediction.

Examinations

The minor consists of the examinations listed below. The learning objectives and the regulations of the individual examinations are prescribed in the online course catalogue. Direct links to the individual examinations are inserted in the table below.

Exam name	Exam form	Gradingscale	Internal/external exam	ECTS
Predictive Modeling and Machine Learning	Oral exam	7-point grading scale	Internal exam	7.5
Multivariate statistiske modeller	Oral exam	7-point grading scale	External exam	7.5
Probabilistic Machine Learning	Oral exam	7-point grading scale	Internal exam	7.5

Prerequisites for registering for the exam – compulsory activities

There are no compulsory assignments or requirements.

Further information

Minor coordinator

Jens Dick-Nielsen, jdn.fi@cbs.dk

Study Board

Finance, Economics and Mathematics - FEM Study Board

How to sign up

CMECM1002U - Minor in Mathematical Machine Learning