

# Machine Learning, Data Science and Artificial Intelligence

**Code:** SCI3070

**Extent:** 20-25 credits

**Language:** English

**Teacher in charge:** Professor Samuel Kaski

**Administrative contact:** Anu Kuusela

**Target group:** All master's students with sufficient prerequisite knowledge.

**Application procedure:** Open for all students of Aalto University

**Quotas and restrictions:** No quotas

**Prerequisites:** Bachelor-level minor in Computer Science or equivalent knowledge. Please check the prerequisites of the courses before signing up.

## Content and structure of the minor

Students take the compulsory course CS-E3210 Machine Learning: Basic Principles and select additional courses from the elective courses list.

### Structure of the minor

Code	Name	Credits
Compulsory course		5
<a href="#">CS-E3210</a>	Machine Learning: Basic Principles	5
Elective courses		15-20
<a href="#">CS-E5710</a>	Bayesian Data Analysis	5
<a href="#">CS-E4890</a>	Deep Learning	5
<a href="#">CS-E4820</a>	Machine Learning: Advanced Probabilistic Methods	5
<a href="#">CS-E4600</a>	Algorithmic Methods of Data Mining	5
<a href="#">CS-E4830</a>	Kernel Methods in Machine Learning	5
<a href="#">CS-E4840</a>	Information Visualization	5
<a href="#">CS-E4870</a>	Research Project in Machine Learning and Data Science	5