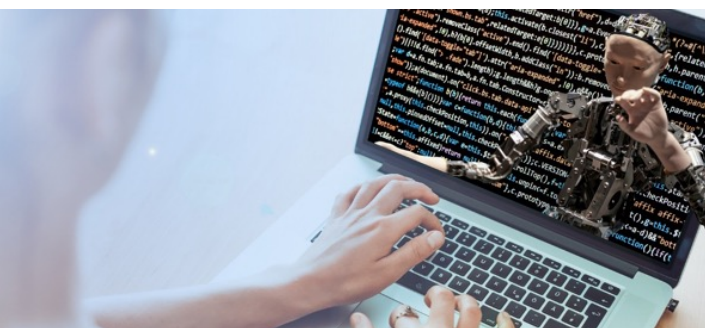# CAS ETH in Artificial Intelligence and Software Development

Providing managers with a targeted education in software, machine learning and AI to advance their career

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CAS ETH in Artificial Intelligence and Software Development

Target audience
Experienced managers working in technology-based industries with limited or no prior background in computer science (CS). The target audience specifically includes managers from Finance, Marketing, Operations, Legal, Strategy and similar departments.

Objectives
The CAS ETH AIS aims to improve the decision-making of managers by providing them with fundamentals in machine learning (ML), software development and programming that are relevant for business and artificial intelligence (AI) applications across multiple industries and areas of the organisation.

Modules
1. Programming with Python
This Python course reinforces and extends basic programming concepts covered previously in the CAS in Applied Information Technology and introduces several new topics including classes, objects, and selected Python libraries. Participants will develop their Python programming skills over the entire CAS with online tutorials, programming exercises, and one-on-one support. A Python basics online course is available approximately one month prior to the start of the programme for participants who do not have any prior experience with Python.

2. Building ML/AI Applications

The course is intended for managers and leaders who want to understand the basics of the technologies that are likely to change almost every aspect of our lives. We explain technical concepts in simple terms, and no previous experience with ML is expected.

3. Software Engineering Fundamentals

This course provides a comprehensive overview of the software development process, introducing participants to essential techniques for facilitating the delivery of high-quality software products. The knowledge and practical experience gained will help managers to improve communication with software development teams, ultimately leading to higher success rates.

Structure and format

Three modules over 14 weeks with classes all day Friday and half day Saturday every other week, typically from January to April. Block format or blended learning. Workload is approximately 250 hours. 10 ECTS credits.

Admission requirements

A Master's level university degree recognised by ETH Zurich or equivalent educational background and several years of managerial experience. A good knowledge of English (B2) is required.

Start	Every January
Language	English
Application deadline	30 November
Programme fee	CHF 8,500
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Programme Manager	Maria Rosaria Polito
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www.inf.ethz.ch/continuing-education/CAS-AIS

For more information, visit
the CAS AIS webpage