Business Digitalization / Experts and Managers / Start December 2019
www.aaltopro.fi/aidiploma

APRO
Aalto University
Professional Development

DIPLOMA IN ARTIFICIAL INTELLIGENCE

HARNESS THE POTENTIAL OF ARTIFICIAL INTELLIGENCE

HY+
CENTRE FOR
CONTINUING
EDUCATION

UNIVERSITY OF HELSINKI

FOR

The program is targeted at business and technology developers who need both practical skills and in-depth understanding in order to utilize artificial intelligence technologies.

PERSONAL BENEFITS

• Learn to develop and deploy AI-based solutions

• Gain in-depth understanding of AI and its business implications

• Recognize AI technologies and relevant questions in the field

ORGANIZATIONAL BENEFITS

• Build competencies for today

• Create new AI-based business solutions

• Streamline and automate your processes with AI solutions

Diploma in Artificial Intelligence

Aalto University Professional Development
Mechelininkatu 3 C
00100 Helsinki, Finland

Tel. +358 10 837 3700
info@aaltopro.fi
www.aaltopro.fi

CONTENTS AND SCHEDULE

The Diploma in Artificial Intelligence consists of six two-day study modules with intensive in-class sessions, case examples and learning by doing. The topics include the fundamentals of data and AI as well as contemporary AI technologies and applications.

The study modules are complemented by individual exercises and project work; this enables you to apply the skills acquired right away in your daily work. In the last part of the program, participants can select between a technical track requiring programming skills or a business track focusing on business applications.

DECEMBER 2019

WHAT IS ARTIFICIAL INTELLIGENCE?

- Basic principles of AI
- AI opportunities
- Roadmap to AI
- Requirements for AI applications

Culture

JANUARY 2020

DATA AND AI

- Introduction to data science
- Data management
- Analysis methods and visualization

FEBRUARY 2020

AI METHODS

- What is machine learning?
- Supervised, unsupervised and reinforcement learning
- Neural networks
- Model-based machine learning

MARCH 2020

AI APPLICATIONS

- Face recognition, image classification and machine vision
- Sentiment analysis and natural language processing
- Recommender systems
- Social network analysis

APRIL 2020

Choice of one of two modules

AI PROGRAMMING

- Programming AI solutions with Python

Or

AI IN BUSINESS

- AI business pipeline
- Case examples exploring opportunities and challenges of AI
- Platform business model and AI

MAY 2020

CLOSING MODULE

- AI in the real world
- Ethics: fairness, accountability, transparency
- Privacy
- Open data and open source
- Continual development of AI systems

INSTRUCTORS

Teemu Roos
Associate Professor
University of Helsinki

Antti Ukkonen
Academy Research Fellow
University of Helsinki

Alex Jung
Assistant Professor
Aalto University

Kimmo Karhu
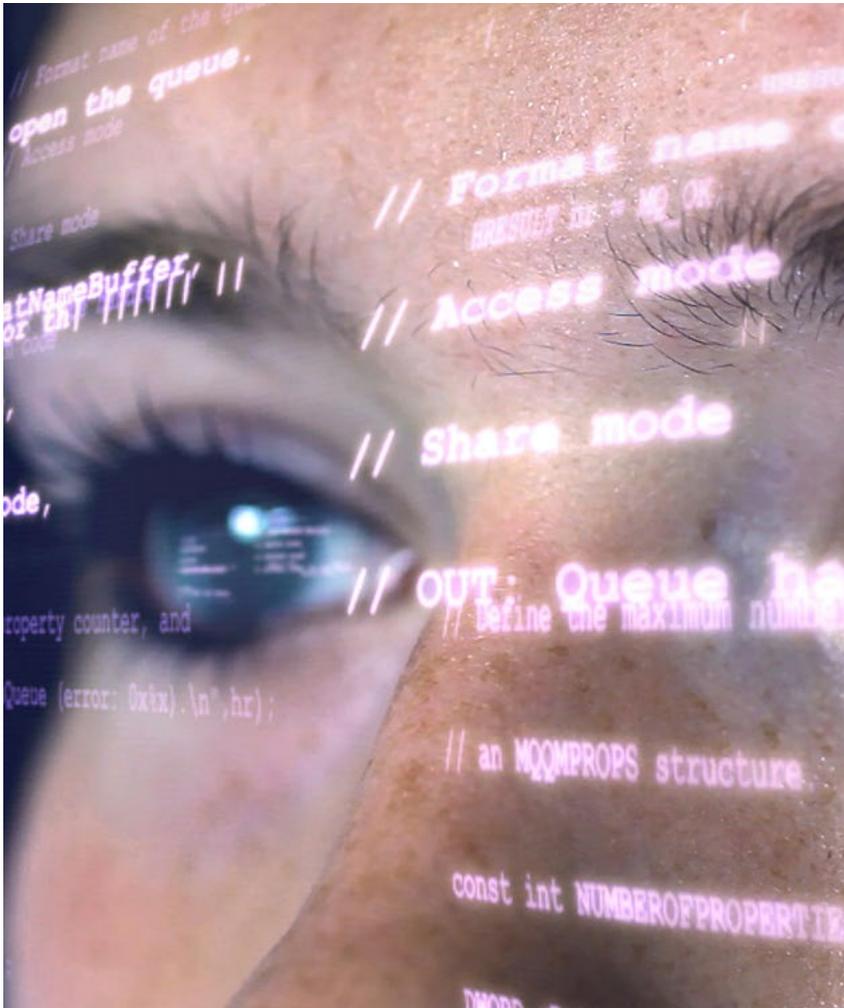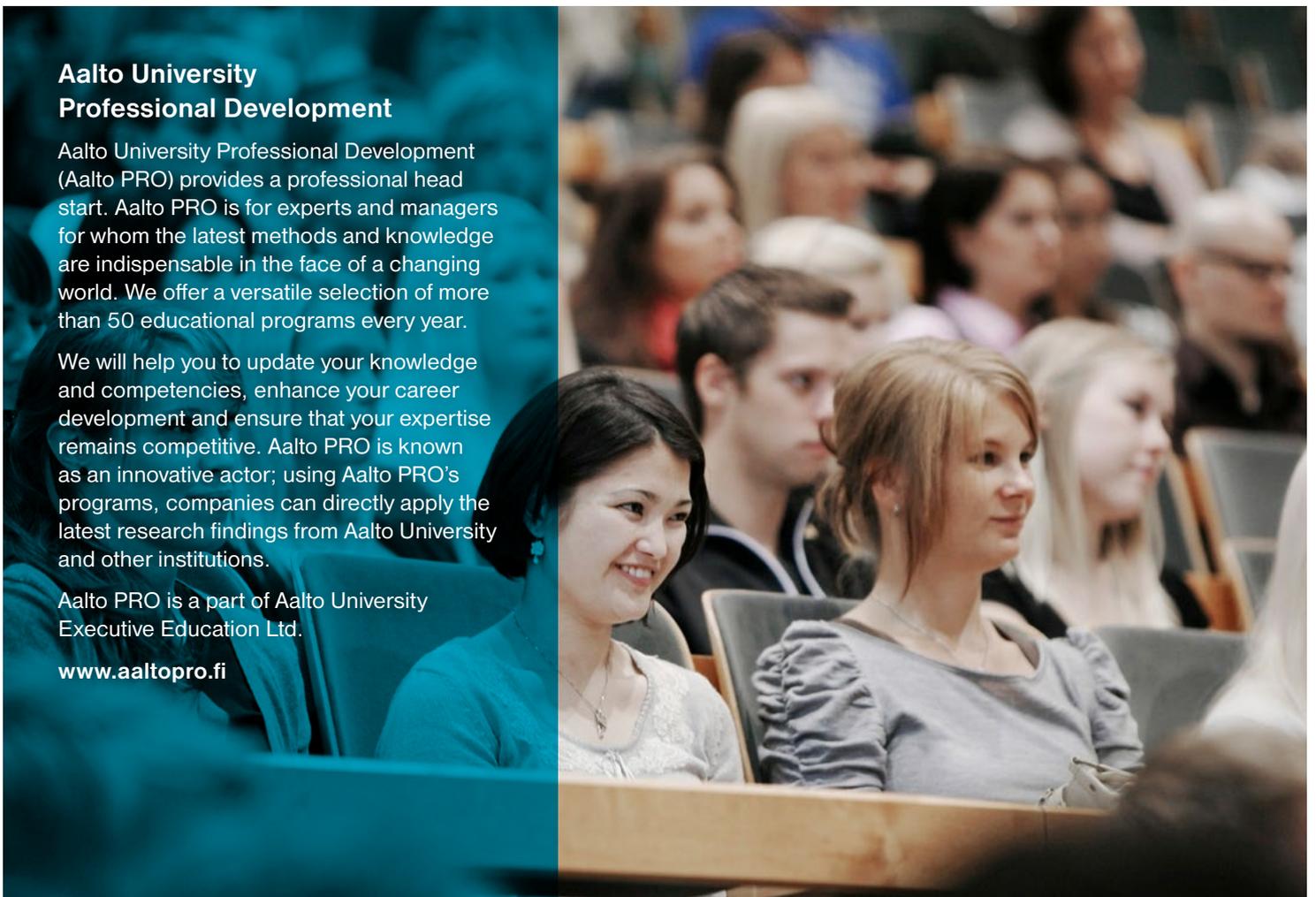Postdoctoral Researcher
Aalto University

Aalto University
Professional Development

Aalto University Professional Development (Aalto PRO) provides a professional head start. Aalto PRO is for experts and managers for whom the latest methods and knowledge are indispensable in the face of a changing world. We offer a versatile selection of more than 50 educational programs every year.

We will help you to update your knowledge and competencies, enhance your career development and ensure that your expertise remains competitive. Aalto PRO is known as an innovative actor; using Aalto PRO's programs, companies can directly apply the latest research findings from Aalto University and other institutions.

Aalto PRO is a part of Aalto University Executive Education Ltd.

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University of Helsinki Centre
for Continuing Education HY+

University of Helsinki Centre for Continuing Education HY+ is an independently managed organization inside the University of Helsinki.

We focus on providing continuing education and development services for individuals, organizations, institutions, and states, and our mission is to improve the future by promoting individual wellbeing through learning, knowledge sharing, and development. Our services reflect the academic fields of the University of Helsinki, which ranks among the top 1% of research universities in the world having gained a solid international reputation in the areas of high quality teaching, research and innovation.

Based on latest academic research, all our training programs have been designed to serve practical application as well. Our professional competence development and capacity building programs build the participants' knowledge and skills and aim at supporting professional growth on a personal and organizational level.

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IN BRIEF

Artificial Intelligence brings rapid changes to all sectors of society opening opportunities and needs for new solutions. To succeed in the competition organizations and individuals need new technological skills as well as a clear understanding of the big picture of AI.

Diploma in Artificial Intelligence gives you in-depth understanding of the topic and helps you to understand and apply contemporary AI technologies.

The program utilizes the experts in the field and it is a joint effort of Aalto PRO, University of Helsinki HY+ and Finnish Center for Artificial Intelligence FCAI.

INSTRUCTOR'S VIEW

Artificial Intelligence is not a futuristic dream. It shapes our world at an unprecedented pace. This program is a deep dive into the latest trends of AI."

Teemu Roos
Associate Professor, University of Helsinki

REGISTRATION

Register at www.aaltopro.fi/aidiploma.

CONTACT INFORMATION

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PLACE AND TIME

The program runs from December 9, 2019 to May 2020.

The program will be held in Helsinki, Finland at the Aalto University Professional Development and University of Helsinki premises.

CANCELLATION POLICY

Unless stated otherwise, the program is invoiced in one installment before the start. The cancellation fee is 20% of the program fee for cancellations made 15–21 days before the start of the program, and 50% of the program fee for cancellations made 8–14 days before the start of the program. There is no refund for cancellations made within 7 days of the start of the program or not made at all.

PROGRAM FEE

€ 9,500 (+ VAT)

Please note that the program fee does not include travel expenses or accommodation. VAT is applicable to private persons and Finnish companies.

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