

EDUCATION

PYTHON AND AI
DEVELOPMENT
FOCUSING ON MACHINE
LEARNING & FULL-STACK
WEB DEVELOPMENT



ARE YOU TOMORROW'S CREATOR AND DESIGNER OF PYTHON PROGRAMS AND PERHAPS AI APPLICATIONS?

Getting started with coding is easy, but to pursue it as a profession, one needs to master it at a higher level. This training is designed as an advanced program for those who already have knowledge or experience in programming or system development.

It gives you the opportunity to take the leap towards becoming a professional developer, equipping you with the knowledge and tools you need to succeed.

In a unique blended learning solution, you will receive personal guidance from professional IT instructors. You will learn through hands-on labs, practice assignments, and self-study. You will gain the knowledge and skills in programming to independently create IT systems, applications, and much more.

This can be the beginning or continuation of an exciting and rewarding career with excellent long-term career opportunities!



PYTHON AI EDUCATION FOR PEOPLE WITH PREVIOUS SYSTEM DEVELOPER SKILLS OR EXPERIENCES

HOW IT WORKS

The education is free, and you qualify through your local Employment Service (Arbetsförmedlingen), which considers your previous knowledge in IT and English. Tests will be conducted to assess your prior knowledge. The education is full-time and lasts for approximately six months with flexible learning. It is followed by a 12-week internship at organizations willing or in need of programmers and system developers. The education is instructor-led and includes labs and practice assignments.

WHO IS IT SUITABLE FOR

The education and profession are suitable for individuals who either have some background in IT or a strong interest, experience, or knowledge in an IT area. The content is also suitable for those who already have a good understanding of programming and want to become even more proficient.

WHAT ARE THE CONTENT

We reserve the right to change some of the content, this being a guide to what you will be doing during the six-month education:

- **Programming & Web Development:** Python, HTML/CSS/JavaScript, Git/GitHub, Agile/Scrum, and UI/UX principles.
- **Backend & APIs:** Object-oriented programming, Django/Flask frameworks, and RESTful API development.
- **Databases:** SQL (MySQL, SQLite), and NoSQL (MongoDB, Cosmos DB) for data storage and integration.
- **Cloud & DevOps:** Microsoft Azure, Docker, CI/CD practices, and introduction to Web3.
- **Machine Learning:** AI fundamentals with Scikit-learn, for data preprocessing and model building.
- **Deep Learning:** Neural networks and advanced applications using TensorFlow and Keras and OpenCV, managed via Anaconda & Docker environments.
- **AI & Agents:** AI practices and the use of coding with autonomous AI agents, e.g., Cursor, n8n (automation).
- **AI-900 Certification:** Preparation for Microsoft's AI-900 to validate foundational AI and cloud knowledge.
- **Capstone Project:** Full-stack system development (e.g., e-commerce app) enriched with intelligent features like recommendations.

CONTACT AND MORE INFORMATION

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