

AI for Data Science

Materials & teaching in English



Over 6 weeks you'll build data science skills with Python and work your way into AI, machine learning, and advanced language models.

Data science and AI are reshaping the way organisations work with information. Companies across every sector are looking for people who can handle data, build models, and apply AI in practice. The demand is there. The gap is in people who have the skills to match.

The course is built around two things that belong together: solid data science foundations and applied AI. You start with Python and learn how to clean, analyse, and visualise data using tools like pandas and seaborn. You work on real projects along the way, so by the time you finish the first part, you have something concrete to show for it.

From there, the course moves into AI for Data Science. You explore how machine learning and deep learning work, build neural networks, and get hands-on with generative AI and large language models. You learn how to

work with transformers, run NLP tasks, and fine-tune pre-trained models for specific use cases. The final section covers RAG and Hugging Face, giving you practical tools for building and deploying AI applications.

The course is self-paced and runs over 6 weeks. You complete it entirely online, with mentor support and lab exercises included. The course comes with a digital certificate you can share with employers or add to your profile.

The combination of data science and AI is one of the most in-demand skill sets on the job market right now. The course gives you both, in one structured learning path, with the projects and documentation to back it up.

You will learn



Python and Data Analysis

- Clean, analyze, and visualize data with Python
- Work with pandas and seaborn for data handling
- Build real-world projects for your portfolio



AI and Machine Learning

- See how AI and machine learning work in practice
- Explore supervised, unsupervised, and deep learning
- Apply AI with an understanding of ethics and limits



Generative AI and Large Language Models

- Learn how large language models like GPT are built
- Explore the architecture behind modern AI models
- Use generative AI in a real business context



Deep Learning and Neural Networks

- Train neural networks to recognize patterns in data
- Work with deep learning models for complex tasks
- Build and experiment with network architectures in Python



NLP and Text Analysis

- Analyze text with sentiment analysis and NER
- Work with transformers and attention-based models
- Run NLP tasks: translation, summarization, and more



Fine-tuning and RAG

- Fine-tune pre-trained models for specific tasks
- Build AI applications using RAG
- Work with Hugging Face to train and deploy models

The course is for you if you...

- ✓ want to build practical skills in data science and AI and are ready to work with real tools like Python, machine learning models, and large language models from day one.
- ✓ are looking for a structured path into data and AI work, whether you are coming from a technical background or building your skills from the ground up, and want a digital certificate to document what you have learned.

Course structure

The course includes self-paced online sessions and Labs. You also get access to a library of e-books..

Careercoach

You also can spar with Itucation's career coach regarding CV, application and job strategy. If you wish to take advantage of this offer, please send an email to kurser@itucation.dk



Upcoming courses

- Start every monday!

Information & Pris

Location	E-learning, Selfstudy
Classes	5 days a week
Duration	6 weeks
Price for applicants	Free for unemployed*
<small>*Free, if you fulfil the criteria for 6-week job-oriented training programs via the Jobcenter</small>	
Price for jobcenter:	Kr. 19.600 (ex. moms)
Sign-up	www.itucation.dk Or contact us on 7027 2784

Information til a-kasser og jobcentre

Regional positivliste

E-learningkurset er godkendt.

Se vores hjemmeside for listetitel og

listenumre.

Pris

Kr. 19.600 (ex. moms)

Ugepris: kr. 3.266,66 (ex. moms)

Betalingstilsagn sendes til

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