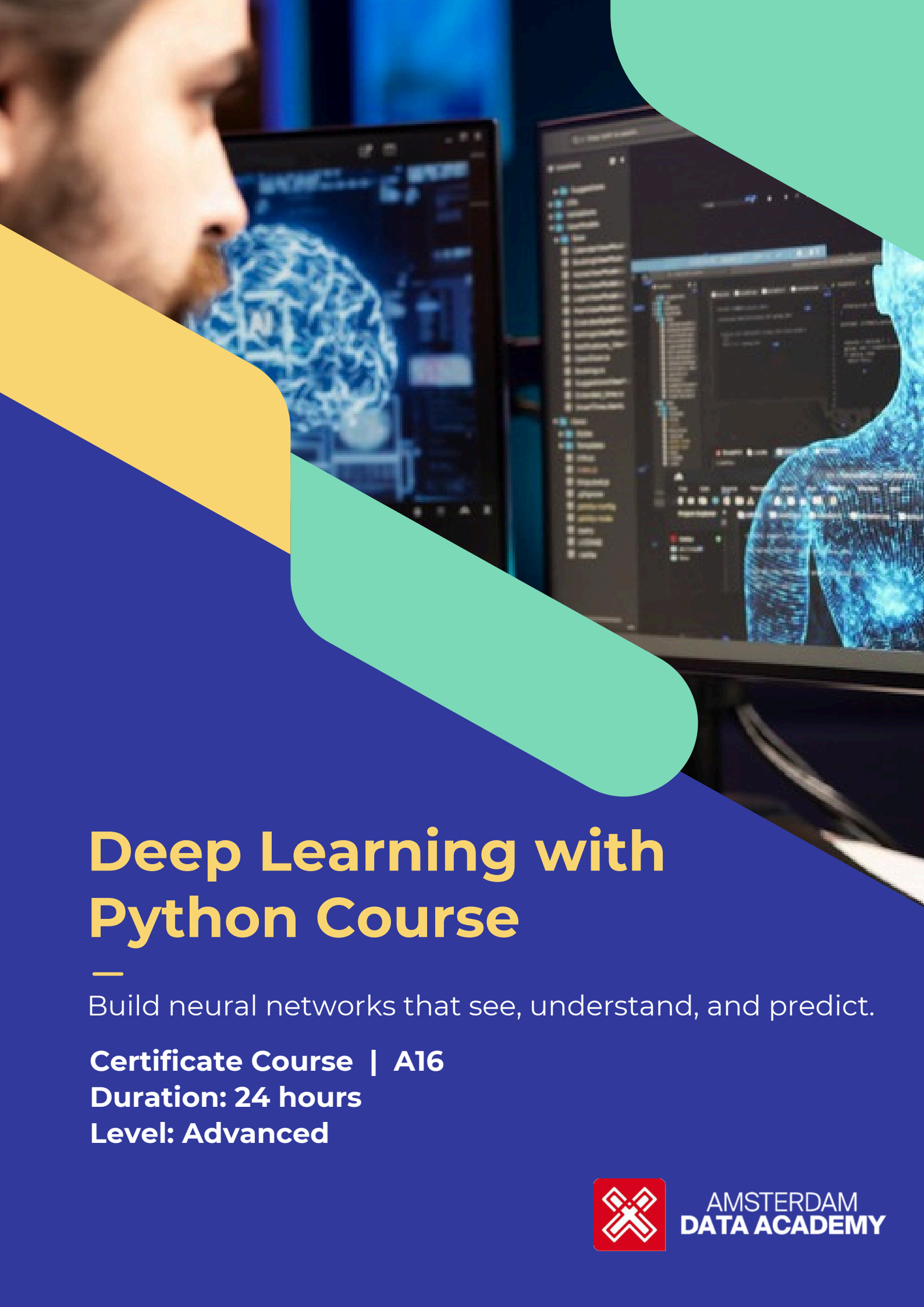




Deep Learning with Python Course

—
Build neural networks that see, understand, and predict.

Certificate Course | A16

Duration: 24 hours

Level: Advanced



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WHAT YOU'LL LEARN

- Build and train deep learning models for image classification and NLP tasks
- Implement convolutional neural networks (CNNs) with PyTorch
- Apply transfer learning to get strong results without massive datasets
- Optimise training: learning rates, regularisation, batch normalisation
- Evaluate and debug model performance systematically
- Deploy a trained deep learning model as a working application



COURSE CONTENT

Module 1 — Neural Network Foundations

- Building neural networks in PyTorch from scratch
- Loss functions, optimisers, and training loops

Module 2 — Convolutional Neural Networks (CNNs)

- How CNNs work: filters, pooling, and feature maps
- Transfer learning with pre-trained models

Module 3 — Recurrent Neural Networks & NLP

- RNNs, LSTMs, and GRUs for sequential data
- Introduction to transformers and attention



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AFTER THIS COURSE

You'll have built multiple neural network architectures and a portfolio-worthy deep learning project. Prerequisite: A05 Machine Learning.

OFFICIAL CERTIFICATE

This course leads to an official ADA certificate at NLQF level 6, the nationally recognised qualification framework equivalent to a bachelor's degree. Your certificate proves a verified, professional level of knowledge and skills — valued by employers across the Netherlands.

Ready for your next step?

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