



# Data Professional Bootcamp

Become an all-round data professional — analytics and data science combined.

**Bootcamp | B03**

**Level: Intermediate**

**Study load: 216 hours**

**Certificate of Completion**



AMSTERDAM  
**DATA ACADEMY**

# WHAT YOU'LL LEARN

- Understand data science, analytics and ethics end-to-end
- Use Excel and Power BI to analyse and visualise data
- Program in Python and build machine learning models
- Train deep learning models for real-world tasks
- Turn data into clear stories and decisions
- Complete analytics and data science capstone projects



## TARGET AUDIENCE

Who is this for

Career switchers and professionals who want to become all-round data experts.

Prerequisites

Basic computer skills. No prior data or programming experience required.

Roles after

Data Analyst · Data Scientist · BI Specialist



# CURRICULUM



## **A03 — Fundamentals of Data & AI**

Core concepts of data science and AI, and where data-driven methods add value.

## **A24 — AI Literacy**

Evaluate AI critically; recognise bias and apply GDPR and the EU AI Act.

## **A10 — Microsoft Excel Essentials**

Expert Excel with PivotTables, advanced formulas and a dynamic dashboard.

## **A04 — Data Visualization (Power BI)**

Interactive Power BI dashboards with Power Query and DAX.

## **A13 — Data Storytelling**

Turn analysis into a clear narrative for non-technical stakeholders.



## **A06 — Programming with Python**

Reproducible Python with pandas and NumPy for data analysis.

## **A05 — Machine Learning with Python**

Build, evaluate and tune ML models with scikit-learn.

## **A16 — Deep Learning with Python**

Train deep learning models for image and text tasks with PyTorch.

## **A51 / A52 — Final Assignments**

Capstone projects in both data analytics and data science.





# ASSESSMENT FRAMEWORK

- Assessment is competency-driven and rubric-based (NLQF level 6), with an independent examiner for every module.
- What you'll be assessed on: Two final assignments — A51 Data Analytics and A52 Data Science.
- Full method, rubrics and resit procedure:  
[amsterdamdataacademy.com/examination-regulations](https://amsterdamdataacademy.com/examination-regulations)





AMSTERDAM  
DATA ACADEMY



## AFTER THIS BOOTCAMP

You'll be an all-round data professional — fluent in analytics, Python and machine learning — with capstone projects to prove it.

## OFFICIAL CERTIFICATE

After completing the Data Professional Bootcamp you receive an official ADA Certificate of Completion. This bootcamp is part of ADA's NLQF level 6 accredited programme — the nationally recognised qualification framework equivalent to a bachelor's degree — recognised by employers across the Netherlands.

**Ready for your next step?**

Book a free study-advice call

[amsterdamdataacademy.com/study-advice](https://amsterdamdataacademy.com/study-advice)

+31 85 004 9642