



Fundamentals of Data

Build your foundation in data: the landscape, the tools and the statistics behind every data role.

Certificate Course | A03

Duration: 24 Hours

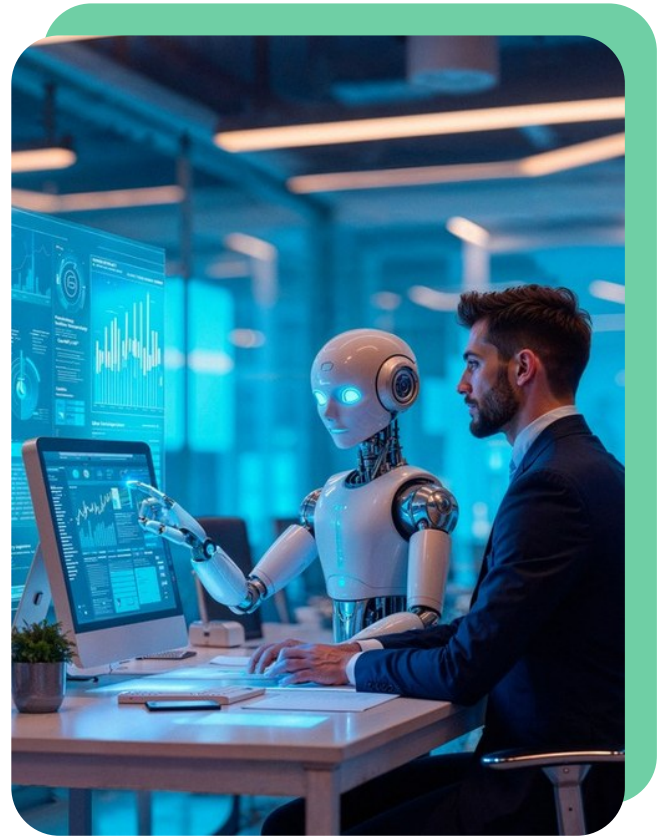
Level: Beginner



AMSTERDAM
DATA ACADEMY

WHAT YOU'LL LEARN

- Understand the key terminology of data science, machine learning and data engineering
- Navigate the data engineering landscape: sources, pipelines, warehouses and lakes
- Know the modern tool landscape from Excel and SQL to Python and Tableau
- Understand what SQL is and how tables and queries relate
- Apply core statistical concepts to describe and test data
- Write a practical, well-founded data project proposal



COURSE CONTENT

Module 1: Foundations of Data & the Data Landscape

- Common terminology: data science, ML, deep learning, data engineering
- The data engineering landscape and tools: pipelines, warehouses, lakes
- The data analysis tool landscape: Excel, SQL, Python, Tableau
- Real-world cases like Netflix, plus a first introduction to SQL

Module 2: Introduction to Statistical Concepts

- Descriptive and inferential statistics, variable types
- Central tendency, spread and distributions
- Hypothesis testing and choosing the right test
- A first introduction to regression

Module 3: Final Assignment, Designing Practical Data Project Proposals

- Frame a real problem, define data requirements, design a solution and write a proposal with risk management



AFTER THIS COURSE

You'll speak the language of data confidently, know the modern data landscape and tools, and be ready to start the Data & Analytics, Data Science or Data Engineering bootcamp.

OFFICIAL CERTIFICATE

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

Ready for your next step?

Book a free study-advice call

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+31 85 004 9642