



STUDY OVERVIEW

MICROSOFT AZURE CERTIFIED DATA & AI TRACK

**Get ready to
learn a whole
lot of skills!**

So what exactly will you be learning during the Microsoft Azure Certified Data & AI Track?

Let us sum it up for you!



First of all...

...we believe in a combination of hard, soft and business skills. That's why you don't just learn everything that has to do with data science: from programming languages like Python to creating data models with Power BI; you also receive lessons from experienced personal branding experts. This way you learn how to translate your strengths and skills into a perfect CV and how to conduct a perfect job interview, for example. To properly prepare you for the Microsoft exams, we use the official MOC material (Microsoft Official Courseware) during our training sessions.

This means that you will have access to e-books with accompanying practical exercises for the four Microsoft certificates for which you will be taking exams. And the nice thing is that you continue to have unlimited access to this knowledge that is kept up to date by Microsoft; also well after this training. In addition, we prepare you well for the exams through additional exercises. All these training courses are given by Microsoft Certified trainers.

Fasten your seatbelts... it's a lot!

The hard skills

- Introduction to Python
- Introduction to data science in Python
- Intermediate Python
- Python Data Science Toolbox part 1
- Python Data Science Toolbox part 2
- Introduction to SQL
- Joining Data in SQL
- Introduction to Relational Databases in SQL
- Database Design
- Intermediate Importing data in python
- Introduction to Databases in Python
- Cleaning data in python
- Pandas foundations
- Manipulating dataframes with pandas
- Merging dataframes with pandas
- Mini case: Analyzing police activity with pandas
- Introduction to data visualization in python
- Introduction to Data Visualization with Matplotlib
- Introduction to Data Visualization with Seaborn
- Improving Your Data Visualization in Python
- Interactive Data Visualization with Bokeh
- Statistical Thinking in Python part 1
- Statistical Thinking in Python part 2
- Mini case: A Visual History of Nobel Prize Winners
- Statistical Thinking in Python part 2
- Foundations of Probability in Python
- Introduction to Microsoft SQ Server
- Introduction to linear modeling in python
- Statistical simulation in python
- Case studies statistical Thinking
- Mini case: Which Debts Are Worth the Bank's Effort?
- Introduction to SQL server
- Intermediate SQL serverIntroduction to Data Engineering
- Streamlined Data Ingestion with pandas
- Software Engineering for Data Scientists in Python
- Writing efficient Python Code
- Introduction to Shell
- Introduction to bash scripting
- Data Processing in Shell
- Command Line Automation in Python
- Data Analysis in Spreadsheets
- Intermediate spreadsheets
- Pivot tables in spreadsheets
- Data Visualization in spreadsheets
- Mini Case: Exploring the Evolution of Linux

Of course, our Microsoft Certified trainers prepare you well for the exams, with mock exams, extra training sessions and practice assignments.

- DA-100 Training Power BI sessions
- DA-100 Training - Theory sessions: Data Analyst
- AZ-900 Training - Theory session Microsoft Azure Fundamentals
- Cloud Concepts - Principles of cloud computing (learning path Microsoft AZ-900)
- Create an Azure account
- Core Cloud Services - Introduction to Azure
- Core Cloud Services - Azure architecture and service guarantees
- Core Cloud Services - Manage services with the Azure portal
- Core Cloud Services - Azure compute options
- Core Cloud Services - Azure data storage options
- Core Cloud Services - Azure networking options
- Security, responsibility and trust in Azure
- Apply and monitor infrastructure standards with Azure Policy
- Control and organize Azure resources with Azure Resource Manager
- Predict costs and optimize spending for Azure
- AZ-900 Azure fundamentals
- Azure for Data Engineer (learning path Microsoft Learn DP200 & DP 201)
- Store data in Azure
- Working with relational data in Azure
- Working with NoSQL data in Azure Cosmos DB
- Large- Scale Data Processing with Azure Data Lake Storage Gen2
- Implement a Data Streaming Solution with Azure Streaming
- Implement a Data Warehouse with Azure Synapse Analytics
- DP-200 Training - Theory session Implementing an Azure Data Solution
- DP-200 Training - Theory session Implementing an Azure Data Solution
- DP-201 Training Designing an Azure Data Solution

Don't worry: you're not alone. We'll guide you through this whole program

The soft skills

- DISC: discover your unique talents and come to a better understanding of yourself, your motives, your talents and growth opportunities
- Personal Branding
- Learn to build a portfolio
- Write a clear and powerful motivation letter and CV
- Learn how to confidently conduct a job interview



The business skills

- Ethics for Big Data and AI
- Online and offline networking
- Learn to negotiate: Negotiation tactics before and during projects
- Build professional dashboards with Microsoft Power BI

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The business case

After completing all the modules and obtaining the Microsoft certificates, you will work on a challenging business case from one of our partners. During this business case, you use all your learned data science, business intelligence and data engineering skills to tackle problems and end with a conclusion or solutions.

The Job Fair

During the training we will put you in touch with interested companies during a digital Job Fair. You will then speed date with companies. That works incredibly well. Because you speak with different companies, you get a much faster idea of where you would fit well; you practice giving your quick pitch (which of course we also train you in), and last but certainly not least: it can lead to a match! And wouldn't it be nice if you completed the training, with an initial job offer already in your pocket?

Inspiration talks

Work in progress... chances are you will even get some more inspiration talks!

We've asked several awesome practitioners to give inspiration talks during the program.



Maaïke

Software developer | Trainer Bright Bossit

Maaïke provides an inspiration session about her path in the world of ICT with a touch of Python. On top of that Maaïke gives an introductory session Data & AI.



Marc

Data & AI Consultant at Macan

Marc will host a live inspiration session about AI capabilities and Power BI.



Megan

Cloud Solution Architect ISV at Microsoft

Megan will give a live inspiration talk about her experiences in data and AI.



Jeroen

Program Manager at Microsoft

Jeroen gives an inspiration talk about how to successfully extract value from data in an ethical way.