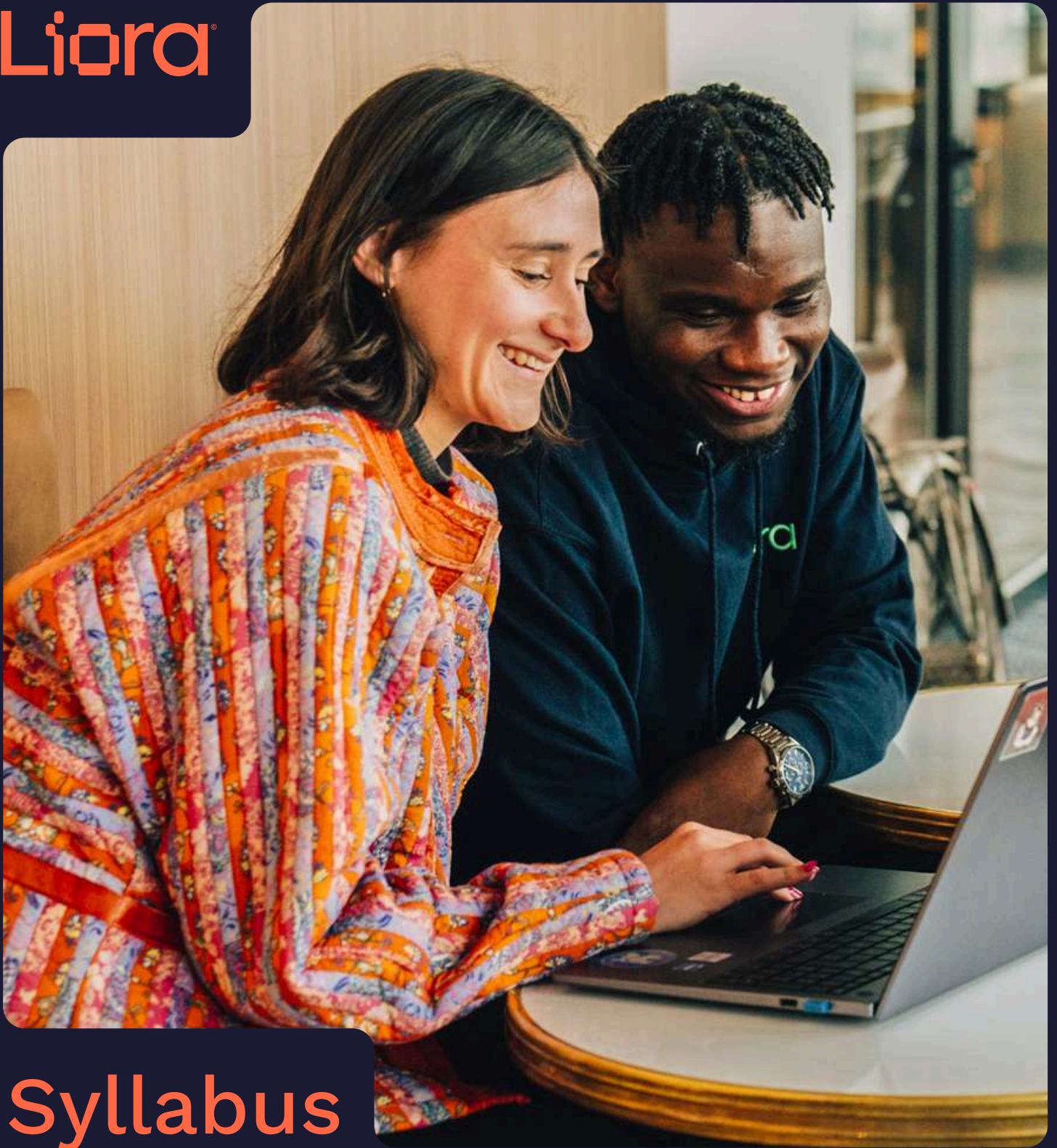


Liora®















Syllabus

Data Analyst



YOUR FUTURE, **DECODED**

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Your future in tech starts here

We help **tomorrow's tech talent** take control of their future.

Our mission: to provide them with the tools, framework, and support they need to grow, acquire lifelong skills, and make a positive impact on the world.

Through a hybrid learning approach that combines **technological innovation** with **personal guidance**, we create a **unique experience** to prepare them for the challenges of tomorrow.

Key figures

>70

Fortune 500 companies grow their teams with our training

83%

Satisfaction rate

92.6%

Completion rate

92%

2024 graduates employed

50K

Liora Alumni

They trust us

AIRBUS

AIRFRANCE

Allianz

amazon

arianeGROUP

AXA

BCG



BNP PARIBAS
CARDIF

Capgemini



EDF

Google

MICHELIN

Microsoft

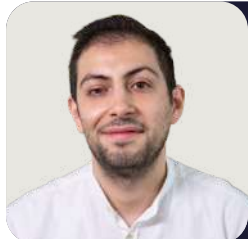
orange

STELLANTIS

TotalEnergies

Expertise that actually gets you further

Our **teaching team** is made up exclusively of **in-house professors**, fully dedicated to teaching and research. Their commitment ensures a **high-level learning experience**, aligned with **market demands**.



Charles S.

CTO & Academic Director (9 years of experience)

A graduate of École Polytechnique, Charles specializes in programming, Machine Learning, and Deep Learning.



Raphael K.

Academic Director

With over 10 years of experience in data and instructional design, he holds a Master's degree in Statistical Learning and Data Science from Université Paris-Dauphine. He has contributed to the structuring and creation of leading Data curricula, leveraging advanced skills in programming, statistical analysis, and machine learning.



Lucas V.

Data Analyst Training Lead

Holder of a PhD in Statistical Physics from Paris-Saclay University, Lucas transitioned into data science and is now leading our Data Analyst program.



Maria M.

Data Analyst – Data Marketing Specialist

After an initial experience as an analyst, Maria chose to deepen her skills by completing the Data Analyst program at DataScientest. She later joined the team as a Data Analyst and now leads the Data Marketing track.



Aïda L.

Program Manager

An engineer specialized in Business Intelligence & Analytics, Aïda brings her expertise to support our learners. With solid experience in optimizing training programs and improving user satisfaction, she guides our students throughout their learning journey.

[Book a meeting](#)

Training that fits your rhythm

Liora offers a **fully remote training** experience in a hybrid format, combining **flexibility** with **hands-on learning** through a **Learning by Doing** approach.

You can choose the pace that fits your schedule:



Bootcamp

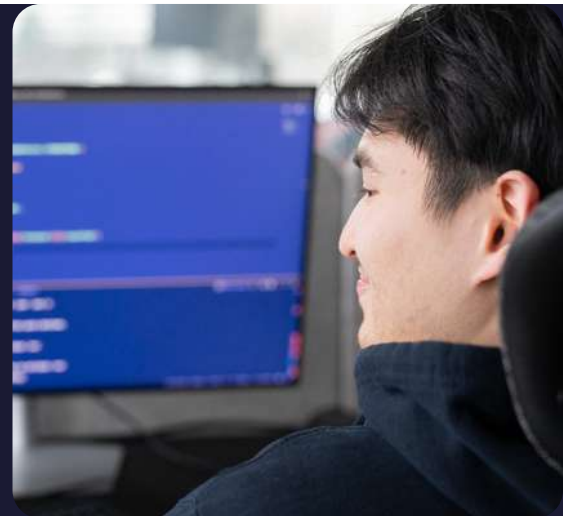
Fast-track your training with our intensive program

- Duration: **12 weeks**
- Pace: **35-40h/ week**
- Program length: **400h**

Part time

Flexible: the format designed to allow you to work while you train

- Duration: **7,5 months**
- Pace: **10-12h/ week**
- Program length: **400h**



[Book a meeting](#)

Training overview



Candidates must have:

- Basic knowledge of mathematics - especially statistics and probability
- English fluency is required
- A free placement test will assess your skills

For candidates who do not meet the required qualification level, an exemption may be granted based on application and written test. Accessing the training requires a computer with internet connection and a webcam.



Our Data Analyst training will provide you with a certificate from **La Sorbonne University**.



[Book a meeting](#)

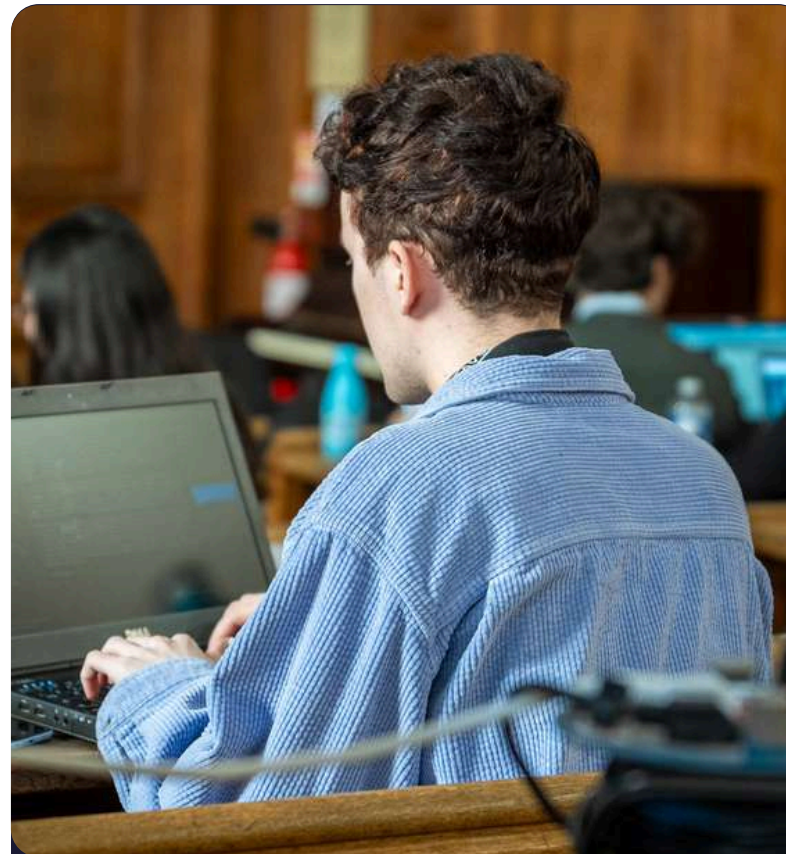
Backbone Project

Throughout the program, learners complete a hands-on project of approximately 80 hours designed to progressively combine all the skills acquired during the training. Carried out in pairs or groups of three, the project can be selected from a catalog of topics updated monthly and inspired by real professional challenges, or proposed as a personal project, subject to pedagogical approval.

Learners work with real, uncleaned data and receive regular guidance from a project mentor to produce work that meets professional standards.

This project enables a smooth transition from theory to practice, enhances employability, and serves as tangible proof of skills during job interviews.

Projects developed by our learners are showcased every quarter during the Data Days, dedicated YouTube live sessions where participants present their work.



[Discover the Data Days](#)

Your roadmap to becoming a Data Analyst



Programming

Data analysis with Python, Exploratory statistics, Learning with AI



Dataviz

Matplotlib, Seaborn, Data Storytelling, Plotly



DataBase / Big Data

SQL language, Data Modeling, APIs



Business Intelligence

Power BI, Looker Studio, Google Sheets, AI Prompt Engineering, Automatisation No-Code avec Make



Advanced databases

Advanced SQL, Cloud fundamentals, Snowflake, Text Mining



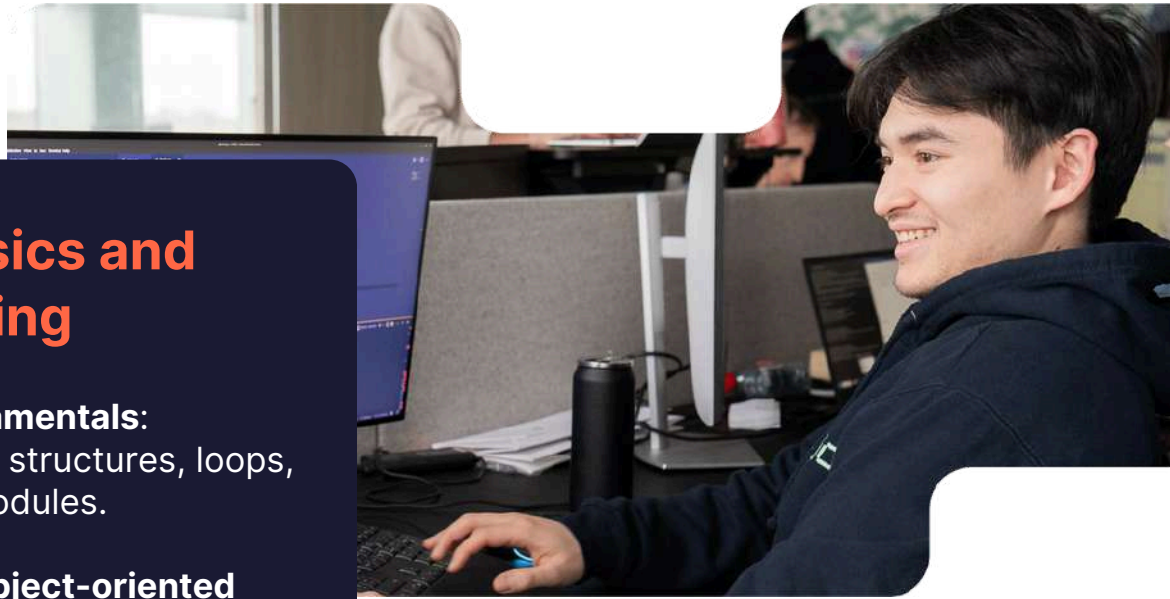
Machine Learning

Introduction to Models and Methodology

[Book a meeting](#)

Programming

50 hours



Python Basics and Programming

Master the **fundamentals**: variables, control structures, loops, functions, and modules.

Introduction to **object-oriented** programming and the use of classes.



Learning with AI

Use of AI tools to support data science learning, facilitate the writing and understanding of Python code, assist with debugging, data analysis and result interpretation, while introducing the fundamentals of prompt engineering.

Data Manipulation and Analysis

Data exploration, cleaning, and transformation with Pandas.

Matrix calculations and statistics with NumPy to optimize analysis.



Data Visualization

35 hours

Visualization with Matplotlib and Seaborn

Creation and customization of static charts.

Advanced visualization with Seaborn for clear statistical insights.



Interactive DataViz with Plotly

Design of interactive and dynamic charts and dashboards that can be integrated into the web.



The Art of Data Storytelling

This module aims to teach you how to transform data analyses into clear, impactful messages that support decision-making.

You will learn how to structure a compelling narrative around data, select the most relevant visualizations, contextualize results, and adapt your message to your audience in order to communicate insights effectively and maximize the value of your analyses.



Big Data/ Database

50 hours

SQL

Learn how to read and query a relational database.

Understand the different types of joins and when to use them.



API

Understand the fundamentals of data APIs and their role in information exchange.

Introduction to ETL concepts and data pipelines.

Business Intelligence

40 hours

Power BI & Google Sheets

Learn how to connect to data sources, use the DAX language, and create Data Visualizations in Power BI.

Creation of interactive dashboards and deployment.



No-Code Automation with Make

Learn how to build automated workflows without coding, connect applications, and manage business processes efficiently.

Make is a tool that enables you to deploy automated scenarios, save time, and improve productivity, while also allowing the integration of AI tools to optimize certain tasks.

AI Prompt Engineering

Learn how to design effective prompts for AI, understand how it works, and obtain accurate, relevant responses.

Looker Studio

Design of interactive and dynamic charts and dashboards that can be integrated into the web.



Advanced Databases

55 heures

Advanced Analysis with SQL

Learning standard and advanced join types, grouping and aggregation functions, as well as advanced queries to deepen data exploration.



Data Analysis with the Cloud

Introduction to key cloud concepts and an understanding of the role of data analysis in cloud environments.

Data Warehousing with Snowflake

Cloud-native SQL data storage and analytics, compatible with major cloud providers. A key solution for modern data analytics in the cloud.



Text Mining & Sentiment Analysis

Extract, structure, and analyze textual data from documents or social media.

Automatically detect sentiments expressed in texts (positive, negative, neutral).

Supervised Machine Learning

35 hours

Modeling & Algorithms

Understand the **main supervised models**: logistic regression, kNN, decision trees, random forests, SVM, boosting, and bagging.

Use the Scikit-Learn library to apply these algorithms to classification and regression problems.



Evaluation & Interpretation

Measure model performance using appropriate metrics (accuracy, recall, AUC, etc.).

Select the best models, interpret the results, and handle imbalanced datasets.



Get Microsoft certified: PL-900 Power Platform Fundamentals

Microsoft PL-900

Learn to master Microsoft Power Platform services alongside **certified Microsoft Certified Trainers** and earn your official certification after just one day of training.



Introduction to Microsoft Power Platform



Introduction to Microsoft Dataverse



Introduction to PowerApps



Getting Started with Power Automate



Introduction to PowerBI



Introduction to Virtual Power Agents

How to finance your training?

Before your registration, our admissions team will guide you to the most suitable training.

Company funding

Support the upskilling of your teams through public funding.

In Germany, companies may benefit from the **Qualifizierungschancengesetz (Qualification Opportunities Act)**, which allows the Agentur für Arbeit to co-finance employee training programs.

Ask your HR department or contact us to explore available funding options.



Training fee: **6.590 €**

[Book a meeting](#)

Strategic partners to boost your employability

Liora is recognized for the **excellence** of its data **training programs**, offering high-level **certified courses** and **prestigious partnerships** that reflect their quality.

Liora is:

Amazon Training Partner

Our AWS certifications:

- AWS Solutions Architect
- AWS Cloud Practitioner



Microsoft Training Partner

Our Microsoft certifications:

- PL-900
- PL-300
- DP-203



Official Partner of Université Paris 1 Panthéon-Sorbonne

Our data programs are certified by Université Paris 1 Panthéon-Sorbonne, ensuring academic quality and recognition.



[Book a meeting](#)

Our alumni share their experience



Henry Tornow

Data Analyst @ Ed-Tech Start-up

"The part-time program gave me the key skills to work as a data analyst — with the flexibility to balance work and life. I especially valued applying a real use case from my company during the project."

Pauline SCHIEVEN

Business Analyst - Revenue Operations @Jellysmack

"The bootcamp format is intense, but ideal for a career change or job search."

"A team that's both friendly and highly professional!"

"100% immersion to upskill quickly."



Rayana EPPENSTEIN

Supply Chain Analyst

"Working with Python made me realize my passion for data analysis. I joined the DataScientest Bootcamp to pivot into supply chain analytics and gained hands-on experience with real tools and cases — thanks to the great mentors and experts who guided me."

Complete your Data Analyst training

Our additional training courses



Data Marketing and AI

Do you want to become a data analyst specialized in digital marketing? Then this training is for you! Learn how to track, collect, and analyze marketing data to boost your company's digital strategy – and take your career to the next level.

[Discover the training >](#)



Power BI

Would you like to perform a complete analysis of a dataset and improve your dashboard creation skills? Then this training is for you! Learn to master Power BI and earn your official Microsoft certification by becoming a Power BI Data Analyst Associate.

[Discover the training >](#)

Need more information? We answer everything here!

Training objectives

- Sort, clean, and process data in order to analyze it
- Enhance the value of data, provide recommendations, and support decision-making
- Interpret results and create dashboards

Teaching methods

- **Practical work:** All training modules are available on our personalized teaching platform Train and include online exercises that gradually allow learners to apply the concepts developed in the course.
- **Masterclass:** Live training sessions with an instructor make it possible to address current issues related to technologies, methods, and tools in the field.
- **Project-based learning:** Enables the learner to engage in real-world professional situations (active learning).

Support and assistance

Every weekday from 9:00 a.m. to 5:00 p.m., our team of expert data trainers takes turns on a dedicated forum to provide **personalized technical support** to all learners. Numerous live Q&A sessions are also organized with our instructors.

Frequently asked questions

What salary can a Data Analyst expect?

To answer this question, we conducted our own survey with around forty partner companies in Germany. Depending on the industry and company size, the average salary for a junior Data Analyst in Germany is around €45,000 per year.

With around 4 years of experience, this figure rises significantly — reaching an average of €55,000 to €60,000 annually.

What career opportunities does the training offer?

This training program is designed to provide you with practical, job-ready skills in data and business analysis, which are highly sought after in today's job market.

Upon completion, you will be prepared for a variety of career paths, including:

- Marketing Data Analyst
- Business Analyst
- Data Project Manager
- Data Consultant
- Business Intelligence Consultant
- Data Manager

If you want to deepen your expertise after the program, Liora offers additional certifications in partnership with providers like Microsoft and AWS — helping you specialize and further enhance your professional profile.

Examples of advanced certifications include:

- Analyzing Data with Microsoft Power BI
- Implementing DevOps in Microsoft Azure Cloud

What is the access time for the training?

The registration for a training program depends on the financing option you choose:

- **Personal or company funding:** You can register up to the day before the training starts (subject to availability of spots).
- **Bildungsgutschein:** Registration must be completed within 2 to 6 weeks before the start of the training.
- **Qualifizierungschancengesetz (QCG):** Registration should be made within 2 to 6 weeks before the start of the training.

What is the PL-900 certification?

Today, more and more companies are looking for a simple and effective way to create their own solutions to better manage their business, tackle the challenges they face, and enhance their productivity.

Through various services such as Power BI, Power Apps, Power Automate, and Power Virtual Agents, Microsoft offers you the opportunity to generate simple dashboards, create applications without coding, automate processes, and build AI-powered chatbots.

With the Data Analyst track, Liora offers you training to prepare for this certification, allowing you to learn about the different services of the Microsoft Power Platform. Upon completing this training, you will have the opportunity to take the official Microsoft certification exam and become Microsoft Certified: Power Platform Fundamentals.

Are you in a situation of disability?

Liora will analyze all possible accommodations (pedagogy, materials, technical and human resources) to compensate for your disability and enable you to follow the training under the best possible conditions.

You can contact our disability coordinator for any inquiries regarding your situation: mathilde.v@datascientest.com.

To learn about the journey of a former student with hearing impairment who successfully obtained their diploma with Liora, feel free to click [here](#).

Liora

YOUR FUTURE, **DECODED**

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