



# Data Analytics

Full-Time

📄 100% online

📅 Full-Time

📍 13 weeks of live lessons

🗣️ English

# Table of contents

01 Why Data Analytics?

04 How will I learn?

05 Timetable

06 Our digital tools

07 Syllabus

13 Course technologies

14 Graduation

15 Team support

16 Career services

19 WBS CODING SCHOOL

20 Our alumni

21 Contact

# Why choose Data Analytics?

**Data Analytics** is all about turning numbers into insights – and insights into smart decisions. It’s not enough to just collect information; it has to be analyzed, interpreted, and put into context. That’s where data analysts come in: they make sense of complex data, uncover patterns, and lay the foundation for strategic decision-making.

## Using data to gain a competitive edge

From marketing to healthcare to finance – massive amounts of data are being generated every second. Those who know how to read it can spot trends early, streamline processes, and unlock new opportunities. Data Analytics helps businesses act more precisely and adapt faster to change.

## From raw data to clear visuals

Being great at Data Analytics means combining stats skills, tech know-how, and the ability to communicate clearly. It’s about cleaning and structuring data, using tools to explore it, and turning it into dashboards, reports, and visuals that really make an impact.

## A future-proof skill that opens doors

In today’s digital world, data skills are more in demand than ever. Across industries, companies are looking for people who don’t just collect data – but truly understand it. If you’re skilled in Data Analytics, you’re setting yourself up for a flexible, future-ready career.

That's why you belong here!

# Personal guidance and **interactive** learning formats

Our teaching approach combines personalized support with dynamic **live group sessions**. An instructor is available every day to assist you, and most days include live lessons to keep you actively engaged.

Regular **one-on-one meetings** give you the opportunity to clarify individual questions directly with your instructors and receive tailored guidance. That's how we ensure you keep deepening your understanding and stay connected to the course content.



## Level up with AI support!

Meet **NOVA (Next-Gen Online Virtual Assistant)**: the new chatbot designed to assist our students on their learning path. NOVA helps you find answers to your questions while guiding you to understand the how behind the solution. A smart sidekick, always by your side throughout your course!

# What **can I expect** in the course?

In this course, you'll learn how data analysts think and work. You'll start with the basics of SQL and database design, build up your skills in Python and statistics, and become a pro at data visualization using Tableau. You'll learn how to clean, structure, and analyze data – and turn it into compelling dashboards and presentations. Alongside tools and technologies like web scraping, APIs, spreadsheets, and data warehouses, you'll also strengthen your teamwork and presentation skills – because data only makes an impact when you can communicate it clearly.

## What makes this course special?

This program offers in-depth content in Data Analytics, daily contact with instructors, personalized support, and a focus on hands-on teamwork.



### Our students especially benefit from:

- **13-week course:** Plenty of time to dive deep into the world of data and cover all the key topics thoroughly.
- **6 hands-on projects:** A focus on practical projects rather than just theoretical knowledge.
- **Focus on teamwork:** Learning in groups to simulate real-world work environments.



# How do I learn in the course?

Our course is all about **learning by doing**: You won't just code, you'll also learn to communicate your ideas clearly, work in a team, and find creative solutions. Project-based learning is at the core of what we do. You'll tackle real-world challenges and solve problems just like in a real company. **This includes:**

- **Group work** to strengthen teamwork skills
- **Regular lessons and 1:1 support** for individual guidance
- **Quizzes and presentations** to reinforce what's been learned
- Varied tasks to help you build an **impressive portfolio**



# A typical **day** in the course

Whether it's live workshops, interactive projects, or one-on-one support – we aim to prepare you in the best possible way for your entry into the tech industry.

That's why we combine hands-on learning with close personal support. Want to see for yourself? Take a look at what a typical day in the course looks like.

09:00 - 09:20

Stand up

09:20 - 10:00

Today's readings

10:00 - 11:00

Code along with an instructor

11:00 - 13:00

Coding exercises

13:00 - 14:00

Lunch

14:00 - 14:30

Coding exercises solutions

14:30 - 17:30

Project work

# Learning and collaboration: our digital tools

## Learning Management System (LMS)



Our intuitive LMS is your go-to platform for all learning materials, assignments, and projects. It keeps you on track and makes managing your studies a breeze. Whether you're working independently or collaborating with your team, our LMS supports your every step.

## Slack – your team messenger



Slack is where all the magic happens! It's our central tool for communication and collaboration. Connect with your instructors, ask questions, and get the support you need. Plus, Slack lets you network with fellow participants, share ideas, and work together on exciting projects.

## Google Meet – for your video calls




Google Meet is our go-to tool for virtual meetings and video calls. With high-quality video, clear audio, and screen-sharing capabilities, Google Meet makes collaboration easy and keeps you connected with us.

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# Syllabus

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# Introductory course (2 weeks)

 2 Weeks

## Primer

In this introductory course, you'll learn the basics of SQL, Python, and descriptive statistics. You'll work with data, summarize it using key statistical measures, and develop the necessary understanding to analyze and interpret data with confidence.



# Business analytics (4 weeks)

1 Week

## Data-driven business with SQL & Tableau

Put your SQL skills to work in a real-world business project. Using SQL and Tableau, you'll analyze data to determine whether a company should expand or not. In the end, you'll present your findings and provide solid, data-driven recommendations.

1 Week

## Introduction to Pandas

Pandas is one of the most important Python libraries for data analysis. You'll learn to work with DataFrames, clean data, and perform basic analyses – laying a strong foundation for more advanced data analytics techniques.

2 Weeks

## Data cleaning & storytelling with Pandas & Seaborn

Clean data is essential for accurate analysis. In this module, you'll learn how to clean, visualize, and effectively communicate data. Visualizations help uncover complex patterns, and with strong storytelling techniques, you'll transform raw data into meaningful insights.



# Extracting knowledge: Statistics and APIs (3 weeks)

📅 1 Week

## A/B testing

Learn how to design, conduct, and evaluate A/B tests. Using inferential statistics, you'll make data-driven decisions to improve products, strategies, and services.

📅 1 Week

## SQL interview preparation

Want to ace your next SQL interview? This module prepares you for common interview tasks—from window functions and temporary tables to stored procedures. You'll practice solving problems efficiently and writing clean, structured queries.

📅 1 Week

## ETL pipelines

Automated data workflows are key in today's data world. You'll learn how to extract, transform, and load data using web scraping, APIs, and SQL databases.



# Data Analytics toolkit (2 weeks)

📅 2 Weeks

## Data Analytics toolkit

The Data Analytics Toolkit gives you a solid foundation in the key tools for analyzing and visualizing data. You'll learn how to use spreadsheets to organize and explore data, understand the basics of data warehouses for managing and storing large datasets, and create interactive dashboards to present your insights.

By the end of this module, you'll have practical skills to analyze data effectively and communicate your findings through visually compelling dashboards – all set to tackle real-world data challenges.



# Final project (2 weeks)

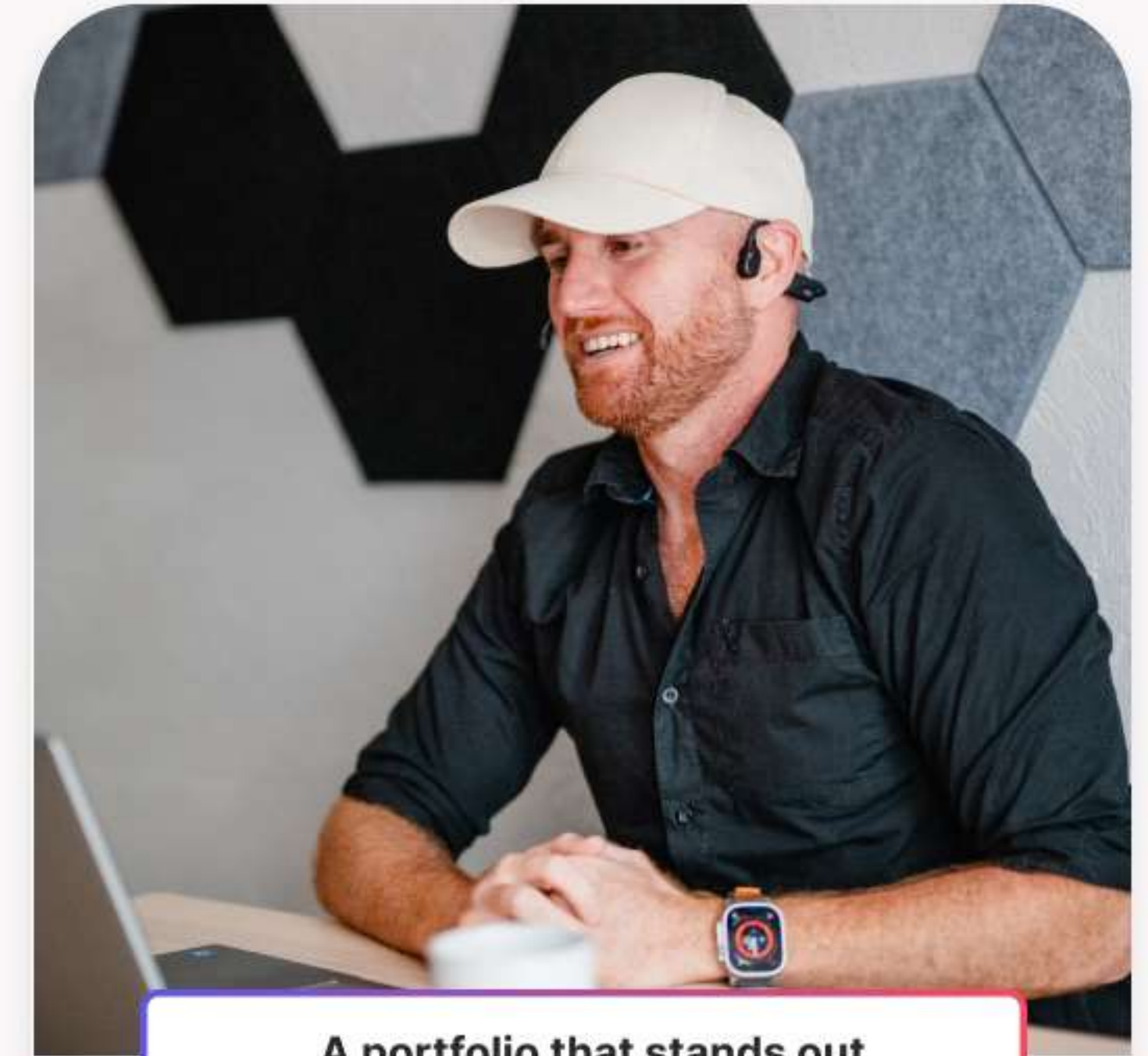
📅 2 Weeks

## Final project

Our Data Analytics final project is where everything you've learned comes together – and where you prepare for the next steps in your journey. This project not only helps you tackle real-world challenges across fields like e-commerce, music, shared mobility, and UX design but also lay the groundwork for your ongoing job search.

This is your opportunity to take charge of every step: selecting your data, crafting your approach, and presenting a standout solution that showcases your creativity and technical expertise. Whether you focus on a real-world case study or an area you're passionate about, these projects are designed to **help you build a portfolio** that proves your skills and sets you apart in the job market.

These **hands-on challenges** are more than technical exercises – they show you what data analysts can achieve in real life. Along the way, you'll sharpen your skills with tools like Python, SQL, Tableau, and Data Visualization, while also honing the problem-solving and communication skills essential for your career.



### A portfolio that stands out

By the time you complete your project, you'll have a **portfolio-ready piece** that not only demonstrates your expertise but also prepares you to excel in your internship, job search, and beyond.

# Course technologies

## MySQL

MySQL is an open-source relational database management system used to store, organize, and query structured data using SQL (Structured Query Language).

## MySQL Workbench

MySQL Workbench is a visual tool for database design, development, administration, and querying, providing an intuitive interface to interact with MySQL databases.

## Tableau

Tableau is a data visualization platform that transforms raw data into interactive and shareable dashboards, providing insights through visual analytics.

## Python

Python is a versatile programming language widely used for data analysis, machine learning, web development, and automation due to its readability and robust libraries.

## Pandas

Pandas is a Python library that offers powerful data manipulation and analysis capabilities, especially for working with structured data like DataFrames.

## Seaborn

Seaborn is a Python data visualization library built on top of Matplotlib, known for its ability to create attractive and informative statistical plots easily.

## SciPy

SciPy is a Python library used for scientific computing and technical computing, offering modules for optimization, integration, interpolation, and more.

## GitHub

GitHub is a cloud-based platform for hosting and managing Git repositories, allowing for collaboration, code review, and project management for software development projects.

## Google BigQuery

Google BigQuery is a fully managed, serverless data warehouse that allows you to analyze large datasets at scale using SQL. It supports fast querying and integrates seamlessly with other Google Cloud tools, making it perfect for big data analytics and business intelligence.

## Google Sheets

Google Sheets is a cloud-based spreadsheet tool that lets you create, edit, and share spreadsheets in real-time. It's great for data organization, basic analysis, and collaboration, with integration options for more advanced automation and analysis.

## Google Looker Studio

Google Looker Studio, formerly known as Google Data Studio, is a data visualization tool that turns your data into interactive dashboards and reports. It supports a wide range of data sources and offers customizable charts and filters to help you uncover actionable insights.

# Your **graduation** is the ticket to the data world

By the end of our course, you won't just have solid knowledge and hands-on experience – you'll also have an impressive portfolio that showcases your skills. Paired with your graduation certificate, you'll have two powerful assets to grab the attention of hiring managers.



## PCEP: Globally recognised certification

Stand out with a credential that gets you noticed. As an exclusive benefit, graduates of our Data courses can earn the official PCEP certification. It's your industry-recognized credential to validate your expertise and show employers you are ready for the job.



## Your WBS CODING SCHOOL certificate

The WBS CODING SCHOOL certificate proves that you've learned through real-world projects and developed valuable data analytics skills. It's a strong credential that can open doors to top jobs in the tech industry.



## Your standout portfolio

All the projects you work on throughout the course, including your final project, will be part of your personal portfolio. It highlights your abilities, proves you can apply your knowledge in practice, and helps you stand out in the job market – paving the way to your dream career.



# Team support: we're here **for you**

At WBS CODING SCHOOL, you're never on your own. Our dedicated team supports you every step of the way.

## Admissions team

First, you'll meet our Admissions Team. They'll guide you through the entire application process, answer your questions about course content, financing, and entry options, and help you to achieve your goals.

## Operations team

The Operations Team ensures that your course runs smoothly. Whether it's organizational questions, technical challenges, or anything else – our team handles all the details.

## Career services

Our Career Services team is here to kickstart your journey into the working world. We'll help you level up your application materials, get you interview-ready, and share valuable tips to ace your job search.

## Community team

The Community Team makes sure you feel part of our vibrant community, even online. With regular events, networking opportunities, and an active Slack community, we encourage interaction and connection – both during the course and beyond.

## Instructors

Our instructors are not only experts in their fields but also passionate educators. They'll be there for you throughout the course, helping you unlock your full potential.

# Career support for your **dream job**

We support you on your journey into the tech world: from personalized career advice and our exclusive talent pool to exciting events. Your success is our goal – during the course and beyond!



## Career service

Our career service helps you present yourself in the best possible way – not only during your studies but also up to 12 months after graduation! From optimizing your resume to targeted interview preparation, we're here to support you.



## Events

Use our events to make valuable connections in the industry. For example, at our Alumni Talk, former students share how their careers have progressed after the course – a perfect opportunity to gain insights and learn from real experiences.



## Partners

With strong roots in the Berlin tech scene and close ties to companies and industry experts, we offer you a network that makes it easier to enter the job market. Our partners are always on the lookout for talent and exciting projects – and you can benefit from that!

# Job market and prospects

More and more companies are realizing how important data-driven decisions are – but there’s a huge shortage of qualified Data Analysts. Right now, only 6% of businesses have professionals who truly understand and can implement data-driven business models. The result? Demand is skyrocketing. It’s no surprise, though: data is growing every day, tools are getting more powerful, and those who can turn numbers into real insights are becoming a game-changer. According to the World Economic Forum, jobs in data will grow by up to 35% by 2027. Data Analytics is quickly becoming one of the most in-demand future skills.

Training is also gaining more attention: right now, almost one in four companies are investing in targeted training to get their employees ready for data-driven tasks.

So, if you're getting into Data Analytics now, you're positioning yourself right at the heart of where the future is being shaped – in the digital economy.

Sources: [Future of Jobs Report 2023](#)



30-35%

increase in demand in the field of data by 2027.

*World Economic Forum*



# Possible career paths

## Data Analyst

📅 Average of €56,600 per year in Germany

That's what you do on the job: collecting and cleaning data, analyzing datasets, creating reports and dashboards, providing decision-making support, and collaborating with other departments.

## Data Visualization Specialist

📅 Average of €54,000 per year in Germany

That's what you do on the job: building interactive dashboards, connecting data sources, customizing visualizations, storytelling with data, optimizing dashboards, collaborating with data teams, and presenting insights in an understandable way.

## SQL Developer

📅 Average of €63,000 per year in Germany

That's what you do on the job: writing and optimizing SQL queries, designing and managing databases, ensuring data quality, supporting ETL processes, troubleshooting performance issues, and collaborating with analysts and other teams.

## Salary range for Data Analysts in Germany

€48,000 - €52,000 per year

Entry-Level

€57,000 - €67,000 per year

Mid-Level

€72,000 - €86,000 per year

Senior-Level

Source: Glassdoor, Kununu

## WBS CODING SCHOOL

# Your entry into the **tech world**

Since 2019, we've been dedicated to transforming ambitious learners into tech industry professionals. Our online courses in AI, Data, UX/UI, and Web Development are designed to meet the fast-paced demands of today's job market. Guided by expert instructors, students learn by doing – building the confidence to tackle the challenges of a dynamic tech industry.

But we're more than just tech training. We're a community built on inclusivity, empowering the innovators of tomorrow through personalized support, hands-on projects, and a focus on skills that make a real impact. Together, we're shaping a tech industry that's diverse, accessible, and ready for the future.

### **WBS GRUPPE – our strong roots**

As part of the renowned WBS GRUPPE, one of Europe's leading providers of professional development, we benefit from over four decades of experience and an extensive network.



### **WBS CODING SCHOOL in numbers**

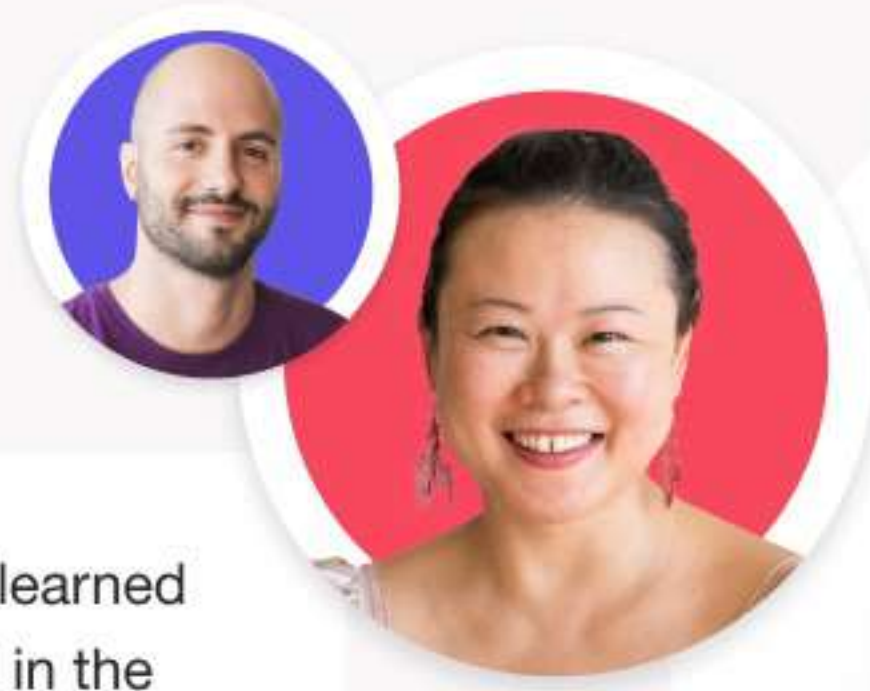
**40+** years of experience from the WBS GRUPPE

**2019** - founded as part of the WBS GRUPPE

**2,000+** graduates

**280+** WBS locations

# What our alumni say



"I undertook the Data Science Bootcamp and it was a **wonderful experience**. I learned a lot but what is even better for me - I feel now I will be able to learn what I need in the future. Thank you instructors and team!"

★★★★★ Almuth Hattwich, Data Science Graduate

"I learned **lots of new things** and met a bunch of amazing people. I not only participated in a course but was also part of a community! Thank you, WBS!"

★★★★★ Andreea Belu, Data Science Graduate



Course Report  
4.8/5 Stars  
★★★★★



Switchup  
4.9/5 Stars  
★★★★★



Google  
4.9/5 Stars  
★★★★★



Trustpilot  
4.5/5 Stars  
★★★★★

## Where our alumni work:

accenture

aws

BASF

facebook

Lufthansa

Mercedes-Benz

SHARENOW

TESLA



DB

SAP

zalando

Klarna

Meta

Lieferando

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# Contact

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