

Introductory course • Curriculum

Introduction to BI and Data Analytics

Training course for lateral entry to the job role of
Business Intelligence Analyst or **Data Analyst**



Course content.

The goal of this introductory course is to provide you with essential knowledge and skills that you will need as a basis for training as a BI Analyst or Data Analyst.

You will learn to describe the job functions for Business Intelligence and Data Analytics and to create simple scripts in the Python programming language.

Introduction to **Data Analytics**:

- > From gathering the data to visualizing the analysis results
- > Business Intelligence and Data Analytics fields

Basics for the **Python** programming language:

- > Standard data types
- > Variables
- > Error messages
- > If-then branching

At a glance.

Type

Online course

Structure

5 modules

Language

German, English

Level

Beginner or career changer

Completion

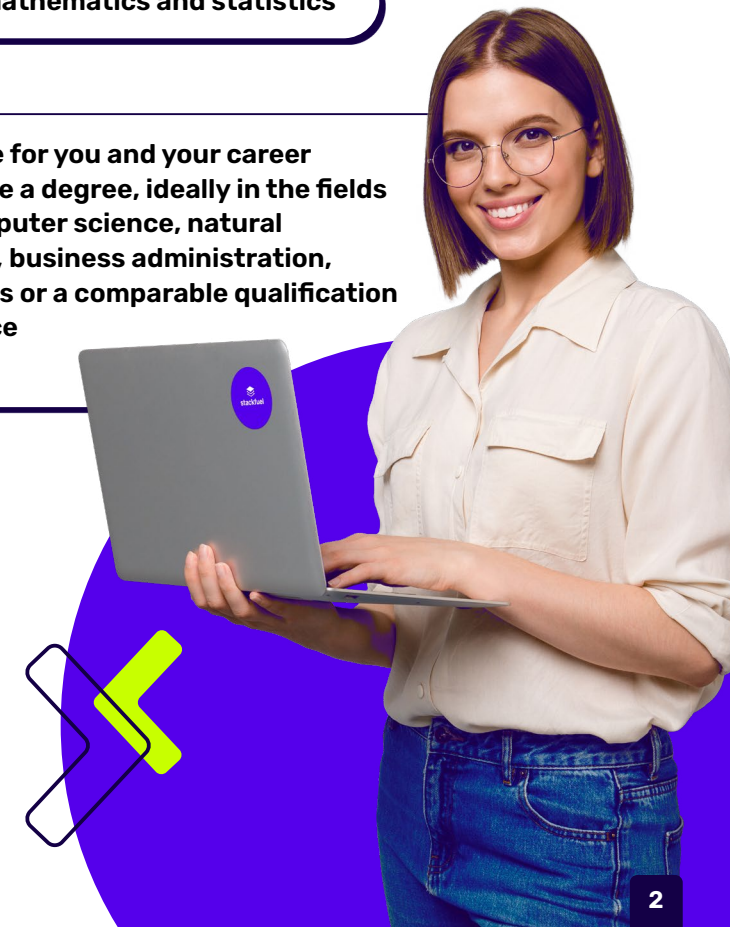
Certificate of completion

Prerequisites

Basic knowledge of mathematics and statistics

Target group

The course is suitable for you and your career aspirations if you have a degree, ideally in the fields of mathematics, computer science, natural sciences, technology, business administration, (business) informatics or a comparable qualification or previous experience in a similar field.



Agenda.

Day 1

Introduction to the **Learning Environment**

Objective:

- > Describing tasks and differences in the fields of business intelligence and data analytics

Content:

- > Welcome session
- > Course schedule and look at building blocks
- > Introduction to the learning environment
- > Defining the terms “data analytics” and “business intelligence”
- > The work of a BI Analyst
- > Data analytics case study:
 - Asking questions about the data
 - Data gathering
 - Structuring the data
 - Data analysis
 - Visualizing the result



Day 2

The Work of a **Data Analyst**, Introduction to **Python Part 1**

Objectives:

- > Using standard data types in the Python programming language and their native methods in the correct situations
- > Using flow control concepts

Content:

- > Defining the term “Big Data”
- > The work of a Data Analyst
- > Overview and differences between business intelligence and data analytics tools:
 - SQL, Power BI, Tableau, Qlik, Python, R and more
- > Introduction to Python part 1:
 - Numbers and calculations in Python
 - Variables
 - Reading and understanding error messages
 - Text in Python

Agenda.

Day 3

Introduction to Python Part 2

Objectives:

- > Using standard data types in the Python programming language and their native methods in the correct situations
- > Using flow control concepts

Content:

- > Using functions in Python
- > The Boolean data type
- > If-then conditions

Day 4

Introduction to Python Part 2

Objective:

- > Using standard data types in the Python programming language and their native methods in the correct situations

Content:

- > Recap of basic data types in Python
- > Lists and loops part 1:
 - Creating lists
 - Accessing lists
 - Modifying lists

Day 5

Introduction to Python Part 2

Objective:

- > Using flow control concepts

Content:

- > The for loop
- > The range function
- > Loops and conditions



About StackFuel.

We are your strategic learning partner, suitable for every career level and professional orientation.

Whether you're changing careers, an employee or a manager, our certified and state-supported training courses in data, AI and programming will keep you up to date with the latest technologies.

Course schedule.



*Sample course schedule for our Data Analyst course.

● Onboarding & offboarding ● Training contents ● Mentoring & support

Training philosophy.



Online & flexible

Do your course part-time or full-time and learn 100% online in your browser on your PC or laptop at home.



Hands-on practice with real-life projects

In our Data Lab you will write your own algorithms with industrial data sets in interactive exercises and coding challenges.



Mentoring & career coaching

Your personal mentoring team will accompany you with coaching, feedback, and weekly group webinars.



Certified & eligible

As a certified training provider, you can get our courses fully subsidized by the job center and the employment agency.



Facts.

91%
completion
rate

80%
interactive
exercises

20%
expert videos
& text lessons

+150.000
learning hours in the Data Lab

4,3 von 5
recommendation rate

Sponsorship opportunities.

Installments or part payment

Use our installments or part payment options to spread out the costs of your course over several months so you can remain financially flexible.

Education voucher

With an [education voucher](#) (Bildungsgutschein in German), you can get your course financed up to 100% by the Jobcenter or the Employment Office, if you are currently out of work or looking for employment.

Training opportunities act

If you are working, you can get your course partially or completely funded by your employer thanks to the [Training Opportunities Act](#) (Qualifizierungschancengesetz in German) - regardless of your qualifications, age or the size of the company.

StackFuel scholarships

We regularly award various [scholarships](#) for our courses, to promote more diversity in the field of data. We want to encourage more people to take an interest in programming, and more women to work in data roles.

Support & mentoring.

Coaching

- > Assessment
- > Final project and evaluation
- > 1:1 project feedback consultation
- > Official certificate of completion

Personal mentoring

- > Kick-off session
- > Webinars with other course participants
- > Support via email or phone
- > Online forum

Career services

- > CV and application coaching
- > Talent pool and career intros
- > Data community
- > Career events



Ready to enroll?

Get in touch with our **consultants**
and build up the **skills** you need!



Maria Schwenke

Education Advisor

Book free consultation

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Errors and omissions excepted.

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