stackfuel

Preparation course · Curriculum

Data Analytics and Data Science Portfolio Projects|

Building up an **application portfolio**
for the job market

⊚ Course content.

The goal of this course is to develop a project portfolio under guidance projects. Career changers in particular are usually better able to impress companies with a convincing sample of their work than just with their resume alone.

You will learn what employers look for in work samples in the field of data analytics and data science and which focal points are suitable for you. Together with your mentors, you will select suitable data sets and questions.

You will then work on projects for your application portfolio individually or in small groups.

In a nutshell:

> Select and implement data analytics and data science projects independently and professionally

> Create and publish projects locally

> Present and discuss results using technical terminology

▤ At a glance.

Type

Online course

Structure

3 modules

Language

German, English

Level

Beginner or career changer

Completion

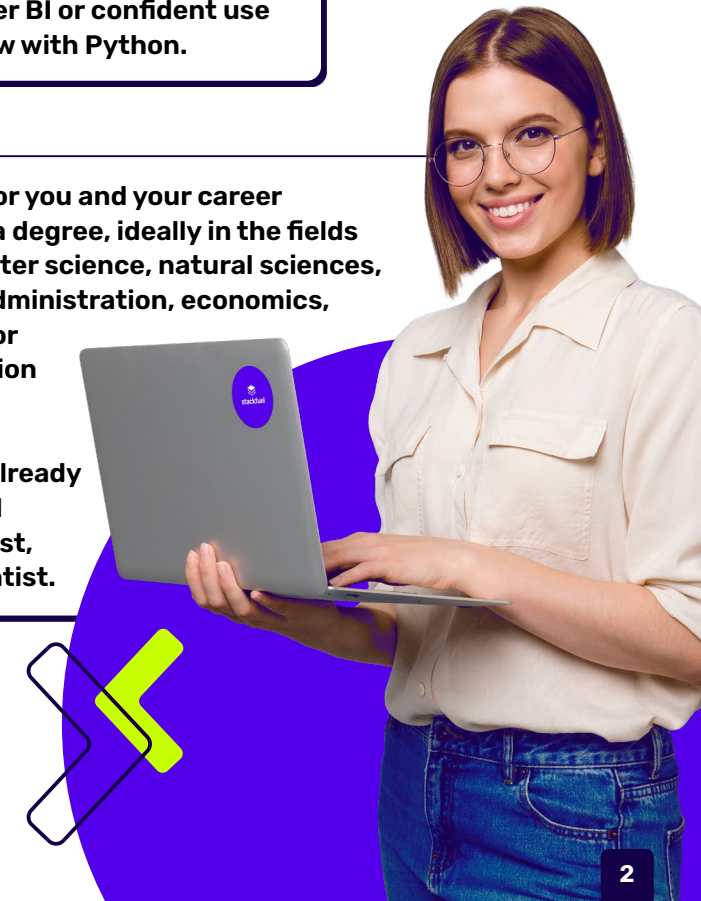**Certificate of completion**

Prerequisites

Confident use of data analytics workflow with Python or SQL and Power BI or confident use of data science workflow with Python.

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, economics, (business) informatics or a comparable qualification or previous experience.

In addition you should already have already completed training as a Data Analyst, BI Analyst or Data Scientist.

Weekly Overview.

Introduction

Objectives:

> Strategic selection of projects

> Creating and publishing projects locally

> Carrying out projects in a structured way

Content:

> Introduction:
> - Getting to know each other
> - Course schedule and look at building blocks
> - Introduction to the learning environment

> Selecting a data project:
> - Principles for good projects guter Projekte
> - Example data analytics and data science projects
> - Sources for suitable datasets
> - Licenses for datasets
> - Estimating how much work will go into a data project

> Setting up your work environment:
> - Installing Python and the necessary modules locally
> - Introduction to GitHub Pages
> - Optional brief introduction to Git

> Structured working in data teams:
> - Data analytics workflow
> - Data science workflow

> Starting portfolio work:
> - Preparation
> - Division into teams and assignment to proposed projects
> - Creating a project plan and assigning tasks

Weekly Overview.

Principles of <mark>Agile</mark> <mark>Project Management</mark>

Objective:

> Carrying out projects in a structured way

Content:

> Principles of Agile project management:
>   • Daily stand-ups
>   • Sprint planning
>   • Sprint retrospective
>   • Kanban
>   • Online project management tools
> Continuation of project work

<mark>Completion</mark> of Project Work Including Presentation

Objective:

> Presentation of results and discussion using technical terminology

Content:

> Completion of project work
> Final presentation:
>   • Creating the final presentation
>   • Presenting the final presentation to the other teams and mentors

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.

	0	1	2	3	4	5	6	7	8	9	10	11	12
Assessment	●												
Kick-off Event	▬												
Data Analyst Course			▬▬▬▬▬▬▬▬▬▬▬▬										
Course Support & Webinars			▬▬▬▬▬▬▬▬▬▬▬▬										
Career Coaching				▬▬▬▬▬▬▬▬▬									
Graduation Project											▬▬▬		
Certificate													●
Weeks	0	1	2	3	4	5	6	7	8	9	10	11	12

*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 (Qualifiyierungschancengesetz 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