Data Engineering Bootcamp

100% Free

via Bildungsgutschein

») neue fische

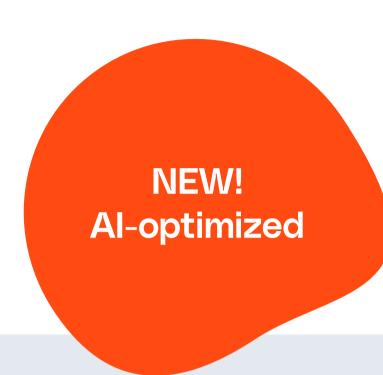
School and Pool for Digital Talent

All contents at a glance

Curriculum

Become a Data Engineer – your path to shaping the infrastructure behind tomorrow's data Our intensive, hands-on bootcamp equips you with the skills to build scalable data pipelines, manage data workflows, and work with modern tools like Python, SQL, Airflow, and cloud platforms. Step by step, you'll gain practical experience in real data projects – from ingestion to transformation and deployment.

Whether you're coming from tech, science, or a completely different background, our experienced coaches and collaborative learning environment will prepare you for a career in one of the most in-demand and future-proof roles in the data industry. Fully fundable via Bildungsgutschein.



Programming & Database Foundations

- Python Programming
- Functional Programming Concepts
- Error Handling & Debugging
- Advanced SQL (Joins, Subqueries, Indexing)
- ER Diagrams & Relational Modeling
- Data Normalization & Optimization Strategies

Data Infrastructure & Modeling

- Designing Scalable Data Architectures
- Logical vs. Physical Modeling
- Partitioning & Indexing
 Strategies
- Star & Snowflake
 Schemas
- Data Lakes vs. Data
 Warehouses

Data Pipeline Orchestration

- Docker & Docker Compose
- Workflow Orchestration with Apache Airflow
- Task Scheduling with Prefect
- Modular Data
 Transformations using dbt
- Git for Version Control & Collaboration

Cloud Engineering & AWS

- AWS Basics: IAM, VPC, Billing & Cost Control
- Data Storage: S3, RDS, Redshift
- Serverless: Lambda, Glue
- Data Warehousing: Redshift Architecture
- Building & Monitoring Cloud-Native Pipelines
- Infrastructure as Code with Terraform

Big Data & Real-Time Processing

- Introduction to Big Data Ecosystems
- Batch vs. Streaming Architectures
- Apache Spark & PySpark for Distributed Data
 Processing
- Kafka for Real-Time Event Streaming
- NoSQL Databases
 (MongoDB) & Document
 Storage Models

Data Governance & Sicherheit

- Metadatenmanagement &
 Data Lineage
- Qualitätssicherung von Daten
- Rollenbasierte
 Zugriffskontrolle (RBAC)
- DSGVO & Grundlagen des Datenschutzes
- Logging & Audit Trails

DevOps, Monitoring & Automatisierung

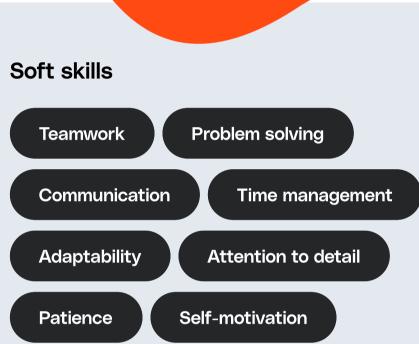
- GitHub Actions für CI/CD
- Logging- & Monitoring-Pipelines
- Deployment-Strategien
- Infrastrukturautomatisier ung mit Terraform

Praxisphase (Environment & Capstone Project)

- 4-wöchiges
- Abschlussprojekt im Team
- Umsetzung einer End-to-End-Datenpipeline
- Realistischer Business Use
 Case
- Technische
- Dokumentation
- Präsentation vor Hiring-Partnern

Zertifizierungsvorbereitung

Vorbereitung auf die AWS
 Certified Data Engineer –
 Associate Prüfung



^{**}The curricula presented here represent an exemplary orientation for the course content. We expressly reserve the right to make adjustments to the content and sequence for didactic and organizational reasons as well as to adapt to the state of the art and the current requirements of the job market, without this affecting the character of the course and the overall quality of the content**.

Data Engineering Numbers and Facts >>> neue fische

With us to the next (job) level

40%

average percentage of women in our bootcamps



7000

Successful graduates

-language bootcamps
We offer our bootcamps in
German and English



Coaches with practical experience Learn from the best: our coaches are industry experts













This is us

Since 2018, neue fische has been offering a training and qualification program for IT professions that is unique in Germany. The team trains career changers and those returning to work in short boot camps to become qualified software, data and cloud talents and then brings them together with exciting employers from its network of over 70 partner companies.

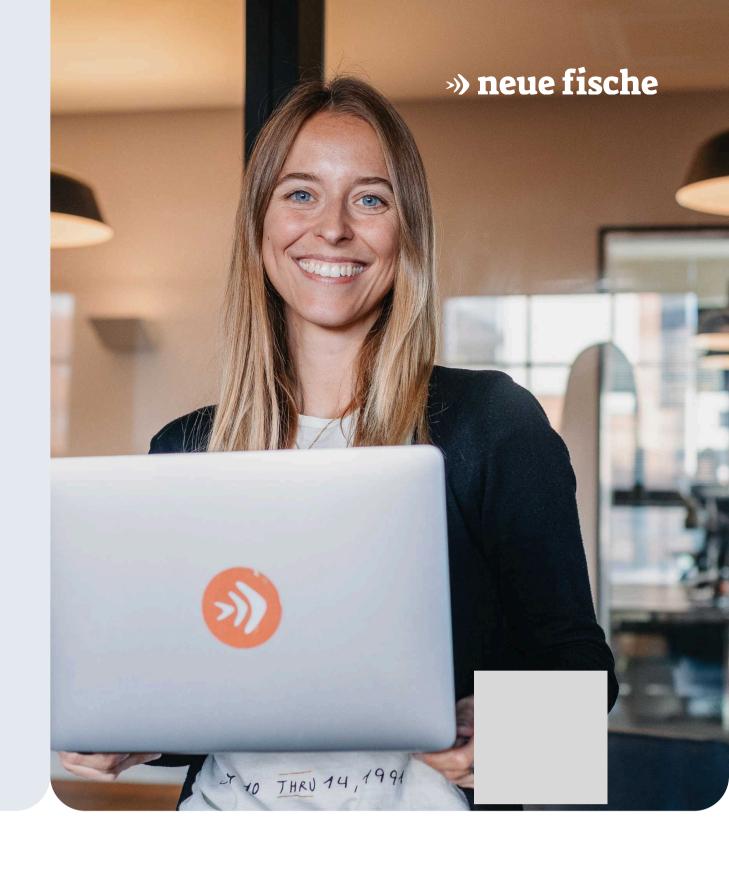
Certified. Education with quality

"The company neuefische GmbH impresses with a very promising training program with a modern methodical approach. The high level of professionalism, the excellent industry networking and the innovative practical expertise of the management should be emphasized."

from the audit report

We support you in getting started

- 6.300 successful graduates
- >>> Expert coaches with practical experience
- >>> 100% Financed with the education voucher



Our Career Development in a Nutshell

At the heart of our Career Service is our Learning Management system (LMS). Here, our course participants receive career tips and support from the preparation of application documents to job search strategy and personal branding - all from a single source. We make sure you are well prepared for your job search. Our Career Service prepares our students not only theoretically but also practically for the demands of the market.

Phase 1

Getting to know each other:

Identification of skills

Phase 2

Sharing insider knowledge:

Understanding the job market

Phase 3

Tips for starting your career:

Milestones and successful completion

Phase 4

We connect:

Networking events to make contacts

- → Interview Workshops
- → Job Changing Strategies and Career Paths
- → Salary negotiations
- → Career Cupid: Networking event with companies, online and onsite (Berlin + Hamburg)
- → Alumni "Ask me anything"
- → Recruiters "Ask me anything"
- → Professional Panels and Q+A
- → Career Roadmap for international students

What are the career opportunities?

Jobs in the IT industry are constantly evolving. Here are just a few examples of job opportunities after completing an IT bootcamp:

Data Engineer

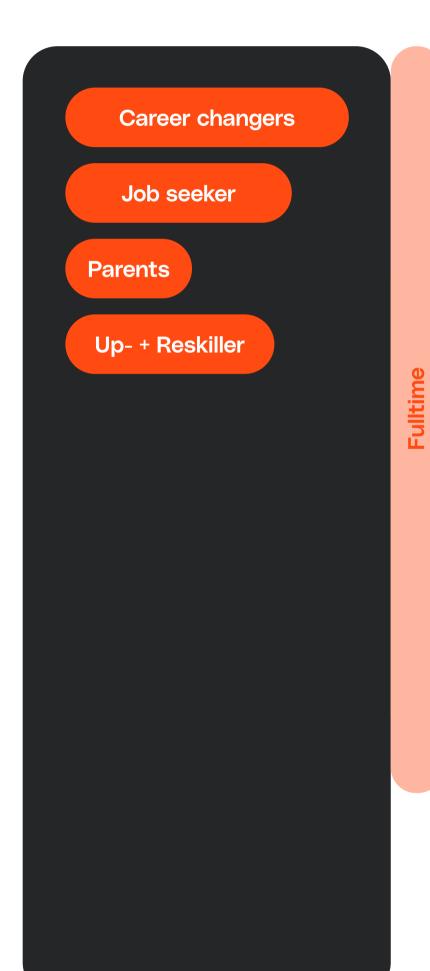
Cloud Engineer

Pipeline Engineer

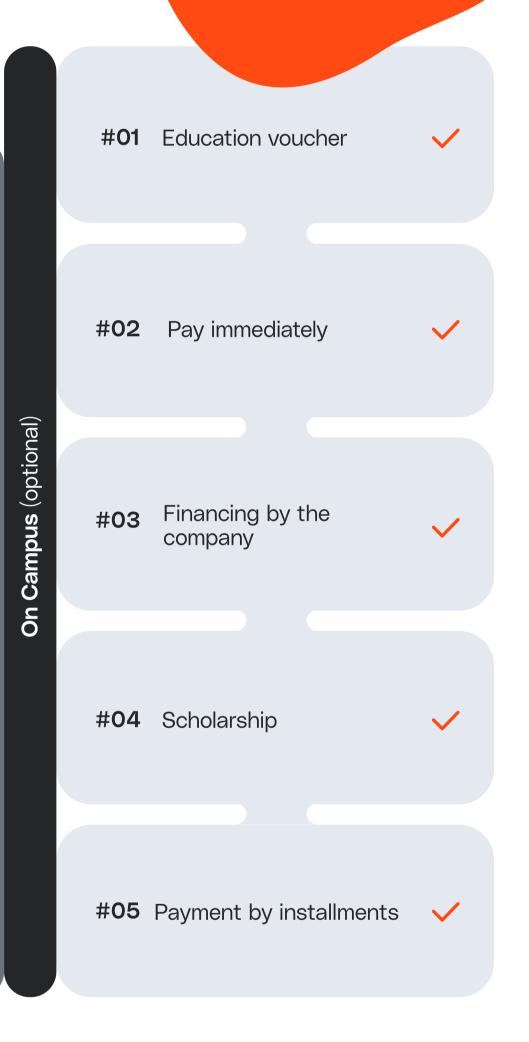
We have the options, you have the choice!

How much time do you have? \rightarrow What do you want to learn? Where do you want to study? \rightarrow How do you want to pay?

95% successful completion rate







Remote

What fits into your life right now?

No matter what life situation you're currently in, whether you're a university dropout, a job changer, a parent on parental leave or on the next career leap - with us you can learn when, how and where you want.

Which bootcamp do you choose?

Students can complete their bootcamp with us full-time in 12–16 weeks (Mon–Fri, 8:30 AM – 6:30 PM). Whether you join remotely (live online) or attend in person on campus depends on the specific bootcamp and your personal preferences

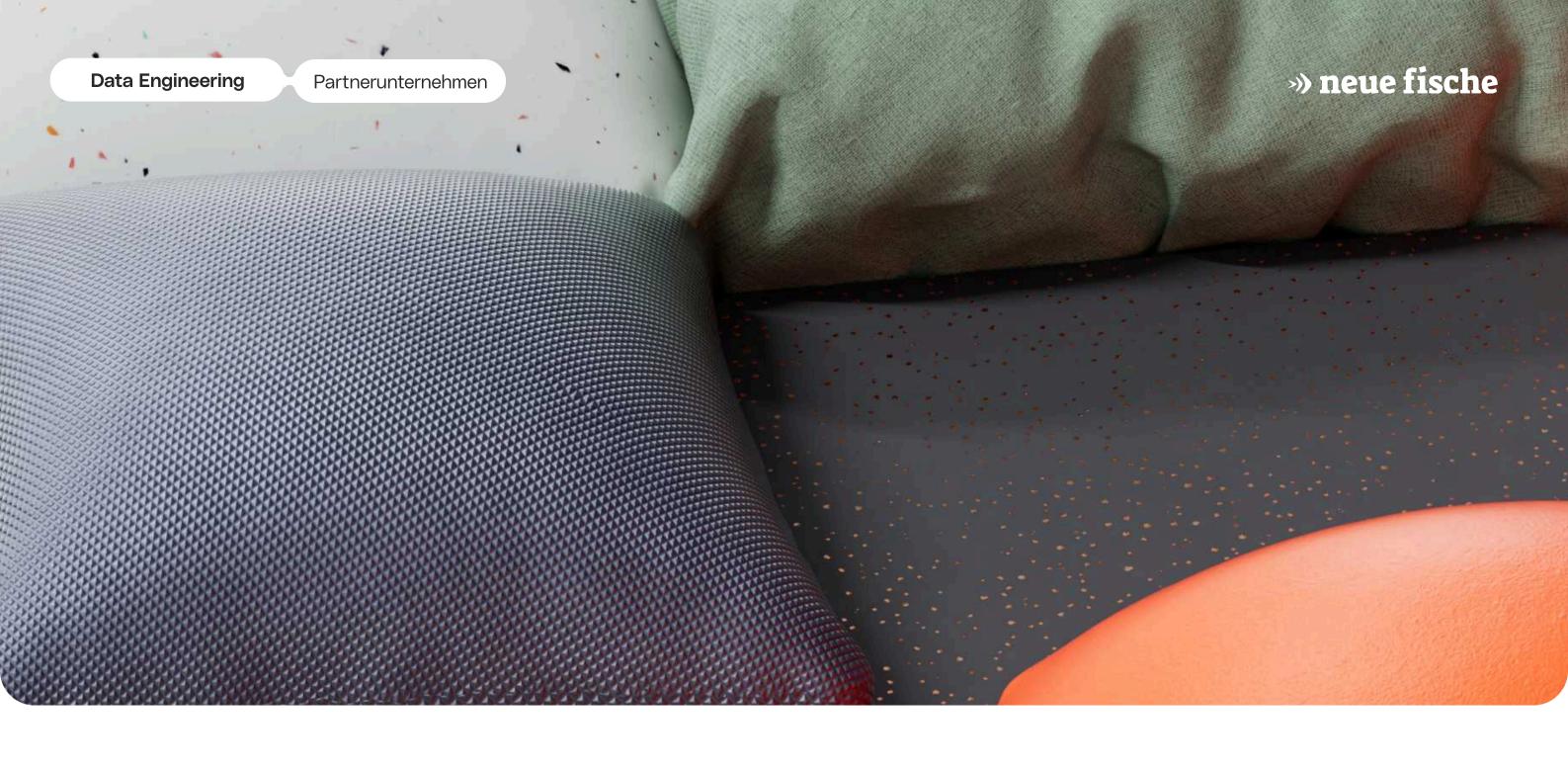
How do you want to finance your bootcamp?

We offer you various financing options for your coding bootcamp so that you can realize your dream job in the tech industry. Whether 100% free of charge with an education voucher from the Federal Employment Agency, as a self-payer or installment payer or with a scholarship for women or international students.

Any questions?

Then please get in touch with us at:

studienberatung@neuefische.de +49 40 22859616



»Our team has trusted neuefische for quite some time now and their knack for supporting career changers. The constructive communication and high quality of training constantly show us that a candidate's CV is not the deciding factor..«



Robert Neuhann,
Recruitment Lead DACH
bei Accenture Song

Über 70 Partnerunternehmen fischen in unserem Teich nach Talenten







Please get in touch with us at:

+49 40 22859616

studienberatung@neuefische.de