Data Science

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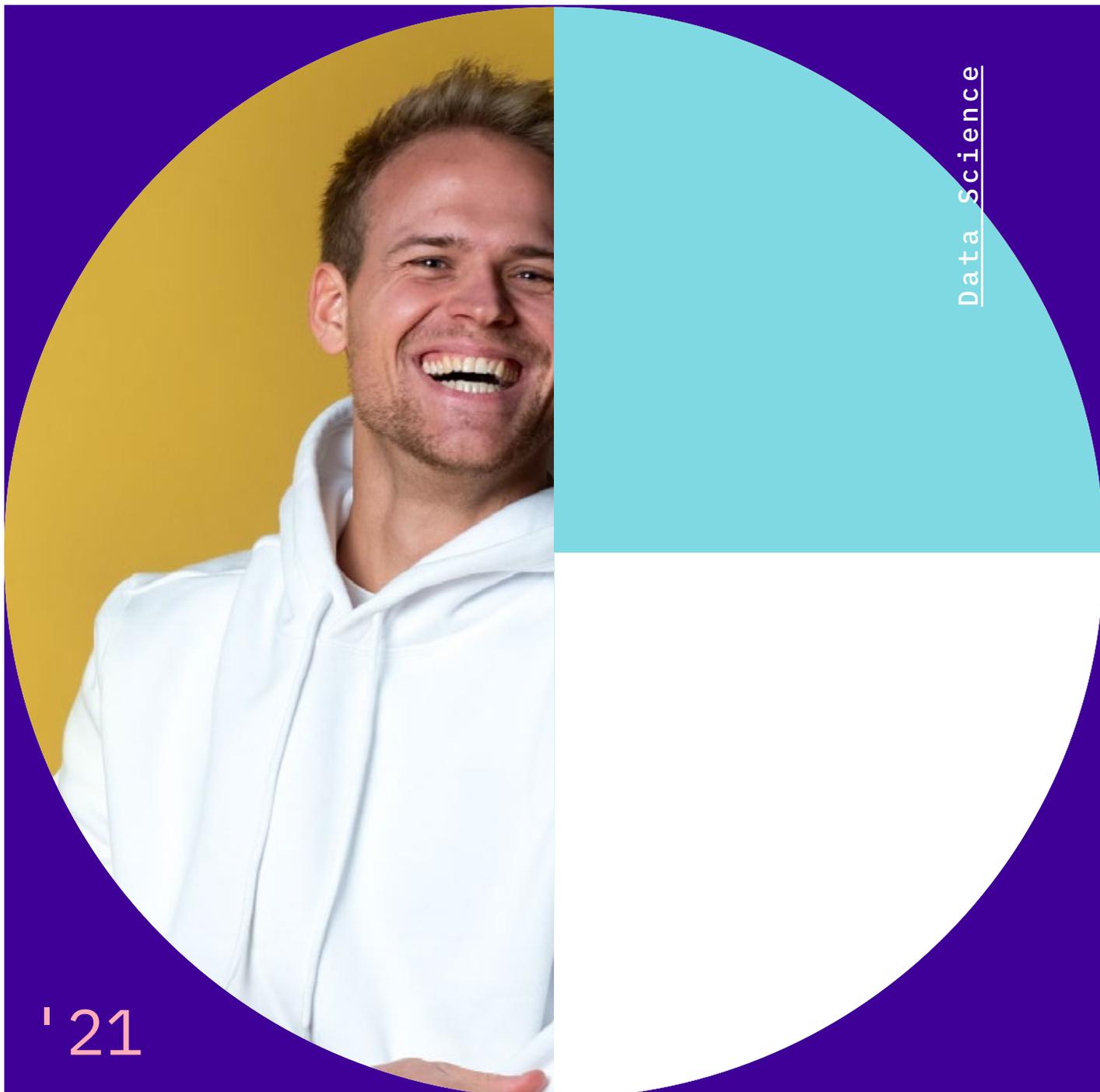**SPICED**

Data Science

"

Spiced was able
to deepen my
understanding of
how key Data Science
models work. You
can learn an amazing
amount in 3 months.

"

Lillian Van Someren Greve
Now Data Scientist @ Team Viewer

Hello!

Frederik
Spiced Founder

We started Spiced in 2015 with the goal to provide people with a modern approach to education.

We believe that people should be able to change their careers at any point in their lives, and we endeavour to provide our students with a hands-on education that will ensure they're ready to perform on their very first day of work.

Whether you're considering a career change, upskilling, or just adding to your current skill set, you're embarking on an imortant and exciting time in your career.

Thank you for considering Spiced as the first step.

Frederik and the Spiced team

Contents

Introduction

Here's a quick introduction to what we do.

Our Data Science Program is a full-time, 12 week intensive course based on-site at our campuses throughout Germany. At Spiced, you'll develop all the skills needed to begin a successful career as a data scientist, also known as "the sexiest job of the 21st century".

Our rigorous course will build your skills in Python programming, pandas, NumPy, Scikit- learn, TensorFlow, SQL, Docker, data visualization and more. You'll complete exciting projects each week, individually and in small teams, allowing you to learn the most effective way there is: by doing.

It's not all about crunching numbers, either. You'll build indispensable skills of a data scientist: critically thinking about your models and assumptions, solving problems in complex systems, effective communication and ethics, and much more. A significant part of the course is focused on career development, meaning you will learn interview techniques, get help on your CV, career guidance, LinkedIn tips and presentation training.

Detailed Curriculum

❝

I was able to come up with some creative solutions to the projects, and a neat application for my final project. The intense method of the boot camp helped me get to the next level skill-wise, such that I spent less time thinking about syntax and error messages and focus more on the solutions.

❞

Kent Troutman, Berlin
Now Data Scientist @ Deutsche Bundesbank

Prep Course

(60-80 Hours)

Our prep course is designed to introduce you to the core skills that you will apply throughout the course. You will rehearse the basics of Python programming and repeat mathematical concepts that you will need as a data scientist.

After you complete the prep course material, you are required to take an assessment. You have two attempts to pass the assessment. Once you've successfully submitted, we'll know you're ready to roll up your sleeves and dive into data science.

On-Site Course

(12Weeks)

Phase 1

In your first weeks you'll focus on learning to use Python libraries for common data handling and visualization tasks, as well as building machine learning systems with scikit- learn.

Important Topics

> Pandas

> Visualizing data

> Machine earning with Scikit-learn

> Supervised Learning: classification + regression

> Forecasting time series

> Web scraping

> Setting up a data science project

> Git

> Structuring Python programs

Phase 2

In the next few weeks you'll focus on building larger data applications. You'll learn how to build image processing systems with TensorFlow, store data in relational databases and connect multiple databases to a pipeline. As your programs grow, you will learn techniques to write bigger Python applications.

Important Topics

- > Deep Learning with TensorFlow
- > Convolutional Neural Networks
- > Object detection and recognition
- > Object-oriented programming
- > PostGreSQL
- > MongoDB
- > Docker
- > Building Dashboards
- > Deployment on cloud servers (AWS)

Phase 3

In the final part of the program you'll learn to deploy machine learning systems with a web interface. You'll apply professional engineering techniques to a maintainable software product. In the final two weeks of the course you'll combine everything you've learnt in your self-defined final project.

Important Topics

- > Unsupervised Learning
- > Recommender Systems
- > Writing a Python web server
- > Front-end development
- > Packaging Python programs
- > Deploying machine learning models
- > Automated Testing
- > Continuous Integration

Spiced Demo Day

At the end of the program, students will participate in Spiced demo day, an exciting event where they will present their capstone projects in front of students, graduates, friends and family.

Spiced Labs

(Optional)

For 6 weeks after the course you're free to come to Spiced to continue to work, receive guidance during your job search and put any final touches needed on your portfolio.

A Typical Day At Spiced

▶▶ **10:00 am** Morning encounter followed by supervised project work

▶▶ **12:00 pm** Lunch

▶▶ **13:30 pm** Morning encounter followed by supervised project work

▶▶ **06:00 pm** Students are free to go home, do evening reading, and get ready for the next day.

Payment Options

▶▶ Full-Paying

Pay registration fee (€800,-) plus tuition fee (€9,000,-) 14 days before the course starts. Please note that the registration fee is non-refundable.

▶▶ Installments

Pay in 3 installments (plus €300 fee + €800 registration fee):

€3,900. - 14 days prior to program start

€3,100. - 4 weeks into the program

€3.100. - 8 weeks into the program

▶▶ Deferred Payment

If our other payment plans aren't possible for you, the Spiced Payment Option could enable you to take the course and defer your payment to a later date. Reach out to info@spiced-academy.com for more info.

▶▶ Bildungsgut-schein

If you're unemployed (or soon to be) and registered in Germany, you could have your costs covered by the Agentur fur Arbeit. Visit our website for more information.
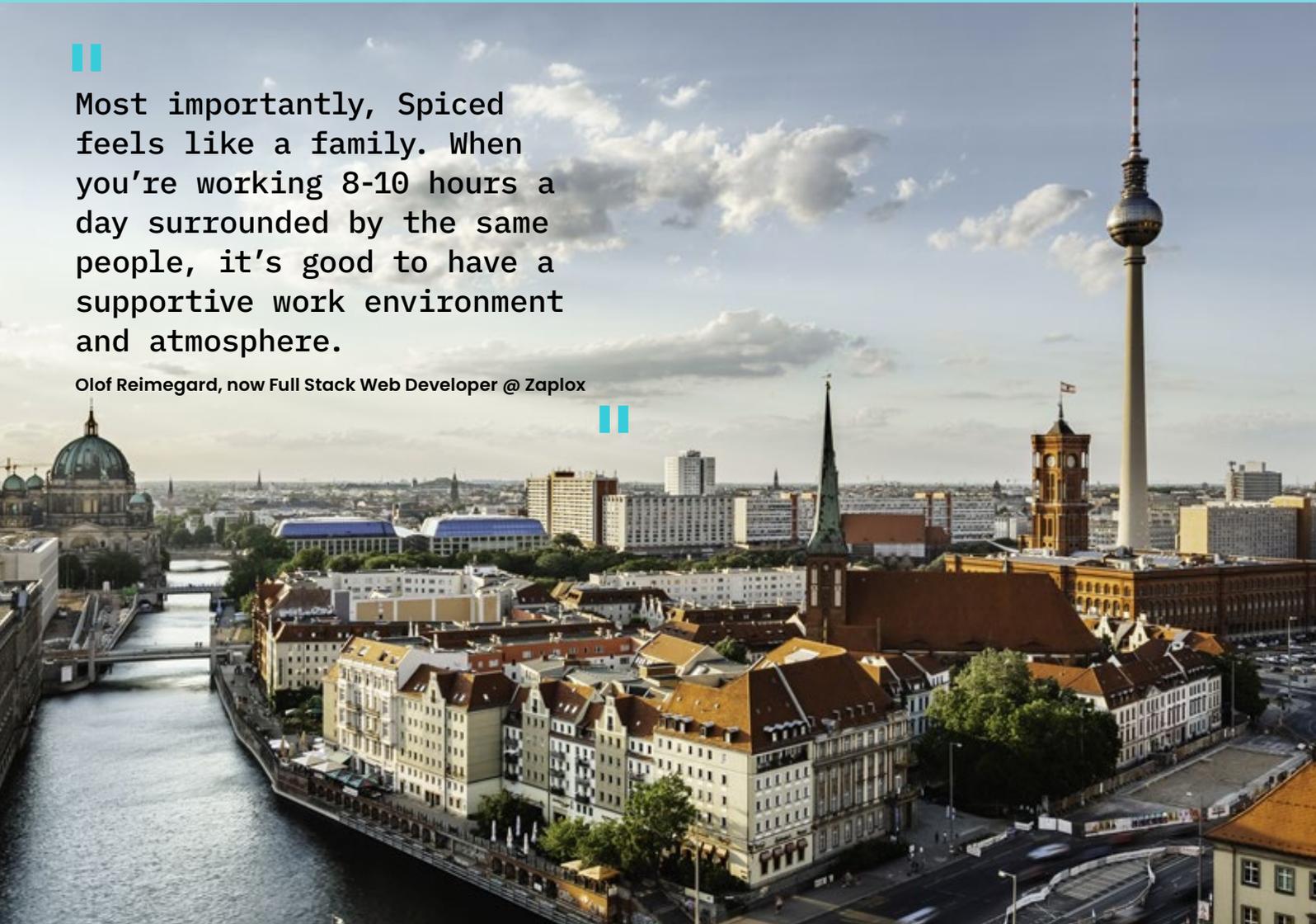
Life at Spiced

> Most importantly, Spiced feels like a family. When you're working 8-10 hours a day surrounded by the same people, it's good to have a supportive work environment and atmosphere.

Olof Reimegard, now Full Stack Web Developer @ Zaplox

Career Skills

Throughout the program you will gain indispensable professional skills to thrive in your career and in life.

We focus heavily on communication skills, decision making, critical thinking, interdisciplinary teamwork and empathy. Additionally, you will learn and apply critical concepts in complex problem solving, rapid prototyping, pair programming and agile development.

You will build and refine your CV, your LinkedIn and GitHub profiles, work on your interviewing skills, and build and sharpen up your portfolio. In short, you'll be job-ready for a career you love!

Community

We love data science. We also know there's more to life. The Spiced community is tight-knit. We hold regular get togethers with pizza and drinks so you can get to know everyone on campus.

We pride ourselves on our international culture and providing a supportive environment to both students and staff. If you need help with your code or a chat, there's always a member of staff ready to grab a coffee.

It's the Spiced touch.

Our Campuses

Spiced was born and raised in Berlin, Germany's vibrant and diverse capital city. Now we have campuses in Cologne, Hamburg and Stuttgart.

Germany is home to a range of exciting startups in its tech hubs such as Hamburg, Berlin and Cologne. Elsewhere in the country, such as Stuttgart and Frankfurt, you'll find more established companies. What they all have in common is a demand for talent.

Throughout the country, IT professionals are in high demand, with data scientists and programmers chief among the roles that companies are searching for.

All of this makes Germany an exciting country to be in right now. Add onto that a robust economy and exciting cultural life, and you have the perfect destination to study and take the next steps in your career.

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