



Program Curriculum

Data Science

2023 Spiced Program Curriculum Data Science

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**SPICED gave me exactly what I
hoped to get: the confidence to
enter the thrilling field of Data
Science.**

Benedikt, Data Science Graduate

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Hallo! 🖐️

Everyone has to start somewhere.

For us, it started in Berlin with a simple idea. To propel highly motivated people into the careers they want, through expert-led and meticulously curated tech courses.

We don't just teach the latest technologies, though.

Spiced is an attitude. It's a community and a melting pot. It's a place where you can meet and connect with people that could change the trajectory of your life. Those who help you develop professionally and personally. From your cohort and beyond.

It takes guts to do what you're doing. No-one's born a genius - it's going to take hard work and dedication to get where you're going.

We're here with you, every step of the way 🚀



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See yourself as a Data Scientist? So do we.

From getting to grips with Python to getting deep with Deep Learning, our Data Science course will get you thinking and building beyond your comfort zone.

You'll quickly move from aspiring data scientist to an inspiring one. Every week of the program is built around a real-world project related to the week's content, so you'll be rolling up your sleeves and getting your hands dirty with data from day one.

It's not all about crunching numbers and stats, either. You'll gain lifelong skills in analytical thinking, problem solving, and effective communication.

On top of all that, our careers service is the place where practical meets personal. You'll build your soft skills and receive CV advice, learn job search techniques, get technical interview coaching and much more.





Nowadays everything revolves around data. I wanted to be a part of that, and so I decided to do a Data Science bootcamp.

Spiced's course draws people from everywhere. The class and the teachers were in great harmony, everybody was trying to help one another in this path of career transitioning.

Gülçin,

Now Data Scientist @ EverPhone

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Before the Course

(40 Hours)

Before the course you'll be required to pass a short assessment. Nothing to sweat about, we just want to see how you are with basic concepts that will be important for your success in the course. Upon successful completion of the assessment, you'll be sent some Python-based prep work to get you ready for the on-site portion of the program.



What You'll Learn

(12 Weeks)



Phase 1

In your first weeks you'll focus on the data science basics – learning to use Python libraries for common data handling and visualization tasks, use relational databases, as well as building machine learning systems with scikit-learn. Your first project will be about the data exploration phase, done before applying machine learning – this is a crucial step of any data science project.

Important Topics

- Git & python environments
- python programming
- NumPy & pandas
- Relational Databases + SQL
- Machine Learning with Scikit-learn
- Supervised Learning: Classification + Regression

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Phase 2

In the second part of the bootcamp you'll learn about a range of advanced topics across the modern data science landscape. You'll learn how to build ensemble and deep learning solutions with TensorFlow, and connect multiple components to a pipeline. Your second project will be a small group project to build your first machine-learning solution from scratch. As your programs grow, you will learn techniques to write bigger Python applications.



Phase 3

In the final part of the program, you'll build your own data science solution in a group project of your choice. You'll combine everything you've learnt, as well as practice team-work and agile workflows on your final project.

Important Topics

- Non-linear models
- Forecasting time series
- Object-oriented programming
- Deep Learning with TensorFlow
- Convolutional Neural Networks







Important Topics

- Setting up and developing a Data Science project
- Agile Project Management
- Final project
- Teamwork and working with supervision

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Your day at SPICED



-  **9:00 am** The day begins, time to review yesterday's topic
-  **10:00 am** Your morning encounter
-  **12:00 pm** Lunch
-  **1:30 pm** Afternoon supervised project work
-  **4:00 pm** Cohort stand-up: a group check-in
-  **4:30 – 6:00 pm** Continue supervised project work, then it's time to rest 🤔

Payment options

Full-Paying

Ready to invest in your future? Pay the full tuition fee (€9,800) 14 days before the course starts.

Installments

Pay in 3 handy instalments (including a €300 surcharge):

€3,900 - 14 days prior to program

€3,100 - 4 weeks into the program

€3,100 - 8 weeks into the program

Payment options (ctd.)

Bildungsgutschein

If you're registered as unemployed (or soon to be) in Germany, you could be eligible to have all your costs covered with a Bildungsgutschein (training voucher).

Heads up, the more motivated you are, the higher the chances are to get one!

For more information on this option, check our page dedicated to financing your bootcamp with a Bildungsgutschein [right here](#).

Deferred Payment

If you don't have the means to pay the total compensation upfront or in instalments but still want to participate, we offer a deferred payment option to highly motivated candidates. Those accepted will have a clear vision of what they want to do after SPICED. Applicants will be interviewed and answer a questionnaire.

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Spiced is a community. I had opportunities to connect with highly skilled and diverse people. The classroom was interactive, which allowed me to make genuine connections with classmates and teachers.

Abhishek Shrinivas

now Machine Learning Engineer @ StepStone



Careers Service

Where practical meets personal, our Careers Service helps turn the dream job into *your* job.

Through group workshops, we help you excel at real-world interviews, and build your communication skills, critical thinking, teamwork and empathy.

And it doesn't stop there – you'll also have access to one-to-one coaching until you're sat at the desk of your very first job. After all, learning new skills isn't just a technical undertaking, it's an emotional one, too.



Community

Community rules at Spiced – after all, there's more to life than studying! For those in Berlin, we hold regular get-togethers with pizza and drinks in our beautiful campus so you can share ideas, grab a coffee, and generally unwind among fellow hungry minds.

We pride ourselves on our international culture and provide a supportive environment to both students and staff. If you need help with your code or a chat, we try to make sure there's always someone on hand for a quick Zoom, or a sit down.

Oh, and Friday drinks can be the stuff of *legend*.

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Our Campus

Welcome to Kreuzberg. Home to SO36 punks, döners and the loveable rogues of Spiced-World. Just at our doorstep you'll find a world of cuisine, upscale cocktail joints, downtrodden kneipes, and cafes ranging from artisanal to hole-in-the-wall.

We love hosting tech events and bringing our ever-growing network to campus and online for workshops and talks. Even after you've graduated, there's an open invite to our events - once a Spicedling, always a Spicedling.

Online

Can't make it to campus? No worries. We make sure to keep the Spiced community alive for our remote students with dedicated breakout rooms, regular online catch ups and, of course, the opportunity to come to any of our Germany-wide meetups throughout the year.



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Thank you

For more information, please get in touch
info@spiced-academy.com

