

# Python for Data Science

## Data Analysis and Machine Learning Insight

With an extensive landscape of libraries for data processing, analysis and visualization as well as architecture of machine learning models, the Python programming language offers an ideal platform for data scientists. Participants of the training will quickly learn the most important basics of the Python programming language and work through the fundamentals of handling data (including import, processing, analysis and presentation) in interactive exercises. The workshop also gives a first insight into the topic of Machine Learning and works on a first example based on a classification.

### Course Contents

- Basics of the Python programming language
- Efficient numerical calculations (with numpy)
- Processing and explorative analysis of data (with pandas)
- Visualization (e.g. matplotlib, plotly)
- Machine Learning concepts at a glance (e.g. algorithmic and statistical basics, learning scenarios, metrics, evaluation)
- Machine Learning Pipeline using classification as an example (with scikit-learn)
- Interactive material and interactive exercises throughout (using Jupyter notebooks).

Participants will work with interactive electronic materials.

**E-Book** You will receive the comprehensive documentation package of the ExperTeach Networking series – printed documentation, e-book, and personalized PDF! As online participant, you will receive the e-book and the personalized PDF.

### Target Group

The workshop is aimed at users who are looking for an introduction to the topic of data analysis and its implementation with Python. The workshop teaches theoretical and practical basics and uses extensive interactive exercises for direct application and subsequent deepening of understanding.

### Prerequisites

Participants in this workshop should have an interest in working with data and statistical methods, as well as be familiar with basic programming. Basic knowledge of the Python programming language is an advantage.

### This Course in the Web



You can find the up-to-date information and options for ordering under the following link:

[www.experteach-training.com/go/PYDA](http://www.experteach-training.com/go/PYDA)

### Reservation

On our Website, you can reserve a course seat for 7 days free of charge and in a non-committal manner. This can also be done by phone under +49 6074/4868-0.

### Guaranteed Course Dates

To ensure reliable planning, we are continuously offering a wide range of guaranteed course dates.

### Your Tailor-Made Course!

We can precisely customize this course to your project and the corresponding requirements.

Training	Prices, excl. of V.A.T.	
<b>Classes in Germany</b>	<b>3 Days</b>	<b>€ 2,195</b>
<b>Classes in Austria</b>	<b>3 Days</b>	<b>€ 2,195</b>
<b>Online Training</b>	<b>3 Days</b>	<b>€ 2,195</b>
<b>Date/course venue</b>	Course language German	
27/11-29/11/24  Online	24/03-26/03/25	Frankfurt
27/11-29/11/24  Wien	24/03-26/03/25	Online
20/01-22/01/25  Düsseldorf	11/06-13/06/25	Online
20/01-22/01/25  Online	11/06-13/06/25	Wien

Status 09/22/2024



## Our Training Offer for You:



### Classroom Training

The live training experience in our training centers or on your premises on-site.



### Online Training

Attend your course in online mode – without travel and accommodation expenses and effort.



### Hybrid Training

Classroom & online in one course – choose how you wish to participate in your training event.



### In-house Training

We create your customized training concepts for your project.



### Guaranteed Course Dates

ExperTeach guaranteed course dates allow for secure and reliable planning.

## Awards Won by ExperTeach



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