

# Data Science Bootcamp

## Intensive 5-day course in hands-on data science



This 5-day intensive course focuses on the many aspects of modern Data Science, such as visual analytics, machine learning, data modeling, and data management. The course can be tailored depending on your interests and experience. For example, an extensive introduction NoSQL databases if you are new to this concept, paired with advanced sessions in Machine Learning if you're already familiar with this topic.

### Target Audience

Anyone who has a scientific or technical background, an ability to work with software, and a keen interest and ambition to master data science and apply it to real-life challenges.

### Course Content

Quantum proposes a 5-day course program with the following indicative content:

#### Modeling and Mapping

Create descriptions of activity landscapes that are the context for data science; formulate and prioritize relevant questions; mapping of the available data onto the business landscape.

#### Visualization, Reporting & Storytelling

Visualize the information hidden in the data; develop story points and lines; communicate facts through the effective use of layout and graphics. Design & structure reports and dashboards.

#### Quantitative Analysis

Statistics, machine learning, simulation, predictive analysis. Use quantitative methods in support of summarizing facts, pattern recognition and generating realistic scenarios based on what we know.

#### Data Management

Prepare data so that the above activities can be executed efficiently and with as little interruption as possible; logical and technical structuring and handling of information for visual performance and algorithmic analysis. Enterprise data integration. Tools: R, Python, Tableau, SQL databases, Key/Value databases (Hadoop, MongoDB), graph database (Neo4j, igraph); Distributed File Systems, data lakes, cloud services. REST APIs.

**The work mode is a mix of lectures, hands-on exercises directly related to the lectures, and use cases.**



### Logistics

- Program: 5 full days, exact dates to be determined.
- Location: Quantum Analytics AG, Zurich, Switzerland
- Team: Quantum will make available a team of teachers who rotate to cover optimally classroom training, hands-on exercises and use cases.
- Infrastructure: Quantum will provide slides, laptops (if necessary), internet access, a cloud platform with data, tools and exercises. A library of reference books is available on premise.

**Price** CHF 5000.– per person for entire 5-day course, excluding VAT.

**Register at** [training@qbis.ch](mailto:training@qbis.ch)

### Quantum. The Story Behind the Numbers.

Quantum is a data science and analytics company, located at Technopark in Zurich. We help clients to identify their most valuable customers, products, or services; determine potential risks; discover hidden potential in their markets; pinpoint and eliminate bottlenecks and inefficiencies; and provide other insights to steer their business. We do this by combining business experience and knowledge with the application, implementation and teaching of scientific methods of data analysis, data management, reporting, deep learning and modern visualisation to turn data into information.

To know more about how modern data science can help you and your business, visit our website at [www.quantumanalytics.ch](http://www.quantumanalytics.ch) or contact us at [info@qbis.ch](mailto:info@qbis.ch).