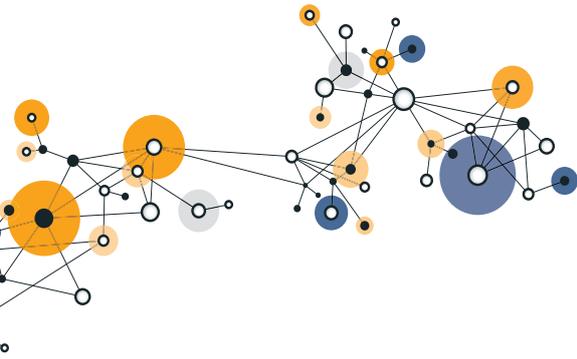


# Digital Transformation Program for Specialists and Data Scientists



A company's transition from traditional to digital business requires a change of mindset and an updating of processes and skills. This classroom training is designed to provide an understanding of the potential of data-driven business processes, and – most importantly – the knowledge and the practical skills needed to run and maintain them.

**Tailored to each customer's specific needs and business & technical environment**, the program content encompasses a broad overview of modern data science-related tools and technology, focused on handling large amounts of data and extracting business value from them.

**The program includes an abundance of real-life examples and supervised practical exercises** to ensure the attendees' understanding and active participation.

## Target Audience

Although there are no specific technical prerequisites, a working knowledge of the basic concepts of data management and analysis will help attendees to get the most out of this program.

## Menu

Handling relational databases: select, link, update, retrieve with ease the data you need.

Data Warehouse concepts and design: overview of current methodologies

Data modelling: understand, organise and manage your data for reporting and analysis

Automation of repetitive tasks; e.g., data cleansing and manipulation of Excel spreadsheets; or data blending of text and Hadoop-based data files

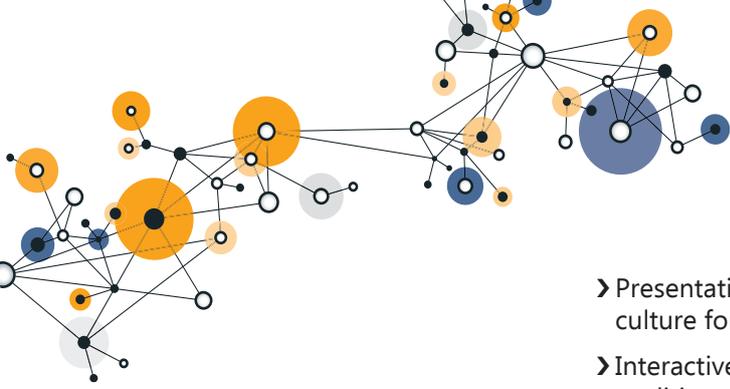
Modern programming languages for data scientists:

- › R: the most popular, open-source software for data manipulation, statistical analysis, predictive modelling, array calculation and graphics
- › Python: an easy-to-understand, general-purpose programming language for integrating data work into a production environment

Data visualisation and visual exploration: learn how intuitive, fast, modern in-memory visualisation helps companies to get the most out of their data

Big Data concepts and technology:

- › size and complexity, activities modelling, questions & analysis approach
- › methodology, technology and software for data acquisition (Web APIs, RDBs, Free Text)
- › storage, processing (Hadoop, Hive, Pig, Impala, Cassandra, Neo4j, etc.)
- › using "as a Service" offerings via APIs to eliminate setup effort (hardware, software, configuration); security considerations



- › Presentation and discussion of scenarios on the work environment and culture for the practice of Big Data
- › Interactive exercises using real Big Data sets, as well as comparisons to traditional methods

**Practical Details**

The duration of the program is determined by the selected content and delivered in full- or half-day sessions, according to needs and availability

Available in English or German

The sessions are held at Quantum's facilities in Technopark Zurich or, upon request, at the customer's premises

Each participant will use his/her own laptop (please inform if this is not possible)

**Price**

CHF 990.– per person per day excl. VAT, with a minimum of 2 and maximum of 5 participants. More people? Please enquire at [training@qbis.ch](mailto:training@qbis.ch)

**Date**

On request

**Register at**

[training@qbis.ch](mailto:training@qbis.ch)

**About Quantum**

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 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.qbis.ch](http://www.qbis.ch) or contact us at [info@qbis.ch](mailto:info@qbis.ch).

