

Data Science

This micro-credential is designed for: professionals/life-long-learners

Subject area: Computer Science/ICT

University: TUM

Prerequisites: Participants should hold a profound education in mathematics, computer science or a closely related field. All levels of professional experience are welcome.

Teaching mode: blended: mostly online, but presence on campus required in specific period

Instructor(s): Prof. Dr. Matthias Scherer, Chair of Risk and Insurance, TUM Prof. Dr. Mathias Drton, Chair of Mathematical Statistics, TUM

Costs: €3,500

Description

“Data science” introduces modern computational methods to manage, process, and visualize data and to communicate their results. This comprehensive program combines the latest research results with findings and challenges from practice. Our experts of TUM’s Department of Mathematics support participants in building core business relevant competencies in Data Science – from developing profound methodological competencies to providing a deep understanding of statistical principles.

<https://www.lll.tum.de/certificate/data-science/>

Learning outcomes

Participants will learn about

- fundamental statistical principles,
- broadly useful statistical methods,
- state-of-the-art prediction methods from machine learning,
- and optimization and randomization tools that help them to tackle large-scale data-analytic problems.

General information

Contact hours per week: 0.5

Total workload: 54 (in hours for the whole course)

ECTS credits: 2

Course start date: 01/06/2023

Course end date: 30/06/2023

Weekly teaching day/time:

Time zone: CET (Denmark, Germany, France, Netherlands, Switzerland, Czech Republic)

Further information:

Activities and methods: Lectures, Seminar, Practices

Presence on campus:

Final examination

Form: assignment

Date:

Location/format:

Add. info/requirements:

Registration

Registration opening date: 01/03/2023

Registration closing date: 31/05/2023

To register for this micro-credential, follow the registration requirements of the corresponding university as specified here (“How do I sign up”): www.euroteq.eu/microcredentials-registration.

Administration

Number of places: 10

Minimum participants: 12

Contact: datascience@ill.tum.de

Internal course code:

This course is a micro-credential developed by EuroTeQ Engineering University, a collaborative activity of the partner universities DTU, L'X, TU/e, TalTech, CTU and TUM. It is the responsibility of the participant to check if you fulfil the requirements to participate in a specific course, as specified in the description. When the course is completed successfully, participants will be awarded the EuroTeQ micro-credential, evidencing the learning outcomes. For further information about EuroTeQ Engineering University, visit www.euroteq.eu or get in touch with the above-mentioned point of contact.