



MSc Data Science

School of Computer Science & Digital Technologies

Statistical modelling, large-scale data and scientific decision support.

Statistical modelling, large-scale data and scientific decision support. The programme combines scientific foundations with project-based engineering practice, delivered in structured semesters with supervised teaching.

Qualification	Relevant bachelor's degree (at least 180 ECTS) or an equivalent recognised foreign degree with an overall grade of 2.5 or better
Academic credits	120
Duration	4 semesters
Language of instruction	Deutsch / English
Start	1 October 2027
Tuition	EUR 2,450 per semester, EUR 9,800 in total
Application deadline	15 July 2027

Curriculum

Semester 1

- Probability and Statistics
- Machine Learning
- Data Engineering and Pipelines
- Technology Ethics and Responsibility

Semester 2

- Deep Learning
- Big Data Architectures
- Time Series Analysis
- Research Seminar

Semester 3

- Natural Language Processing
- MLOps and Model Operations
- Data Visualisation
- Research Project

Semester 4

- Master's Thesis and Defence

Learning outcomes

- Apply scientific method to technical problems
- Design, model and evaluate complex systems
- Communicate results to specialist and international audiences
- Assess technological developments in ethical and legal terms

Admission requirements

- Relevant bachelor's degree (at least 180 ECTS) or an equivalent recognised foreign degree with an overall grade of 2.5 or better
- Evidence of proficiency in the language of instruction — English C1 (IELTS 7.0 / TOEFL iBT 95) or German C1 (TestDaF 4x4 / DSH-2), depending on the language of instruction
- Complete application documentation — transcripts, language certificate, CV and identity document

Career opportunities

- Development and design roles in technology-driven organisations
- Research and development in institutes and industry
- Project and systems responsibility in interdisciplinary teams
- Progression to master's or doctoral study

Contact and application

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