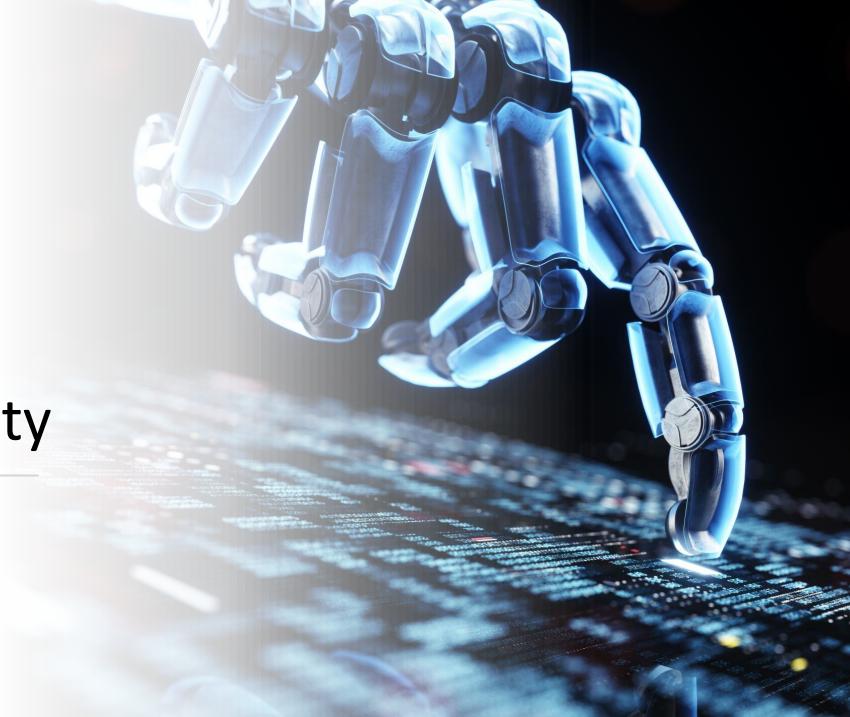


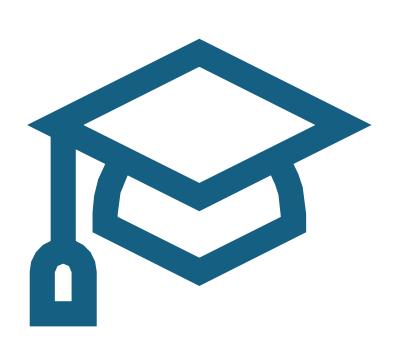
MSc AI in Society

Info Session

TUM Master's Days

March 26th 2025





Agenda

- Artificial Intelligence: Challenges in Society
- What will I learn?
- Target Audience
- Comparison to similar study programs
- What jobs can I apply for later?
- Application procedure
- Your questions!

Al in Society: Current Challenges



AI = black-box. Complex decision-making processes we need to understand

Potential misuse of AI:

Fake news, fraud schemes, ...

Automation of tasks:
May lead to **job displacement**

Overreliance on AI: privacy and security concerns

Bias in Al systems:

Unfair and discriminatory outcomes

We need:

- responsible and ethical use of such technologies
- effective regulation and governance of AI

What will you learn?





Technical side

- Data Science
- Machine Learning
- Natural Language Processing
- Human-Al Interaction
- Explainable AI
- Programming with Python



Social science side

- Legal aspects
- Policies, Regulation
- Governance
- Role of AI in societal contexts
- Instructional design of AI (psychology of learning)

Bridging technical and societal implications of Al

Curriculum

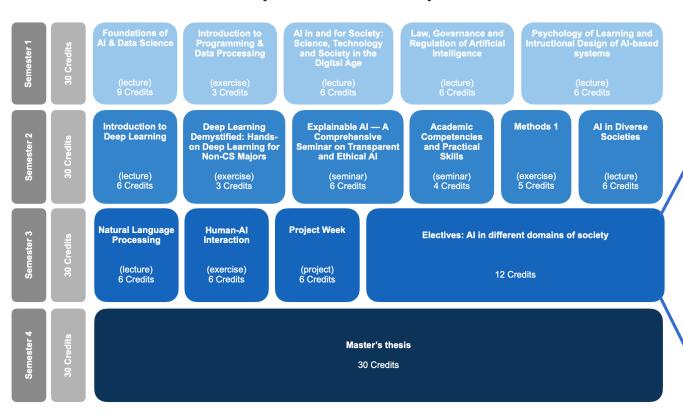


Foundations of Introduction to Al in and for Society: Law, Governance and **Psychology of Learning and** Intructional Design of Al-based Al & Data Science **Programming & Regulation of Artificial** Semester 1 30 Credits and Society in the **Data Processing** Intelligence Digital Age 9 Credits 3 Credits 6 Credits 6 Credits 6 Credits Introduction to Explainable AI — A **Methods 1 Deep Learning** Academic Al in Diverse 30 Credits **Deep Learning** Comprehensive Semester 2 **Demystified: Hands-Competencies Societies** on Deep Learning for Seminar on Transparent and Practical **Non-CS Majors** and Ethical Al Skills (lecture) (exercise) (exercise) (seminar) (seminar) (lecture) 6 Credits 5 Credits 3 Credits 6 Credits 4 Credits 6 Credits **Natural Language Human-Al Project Week** Semester 3 **Electives: AI in different domains of society** 30 Credits Processing Interaction (lecture) (exercise) (project) 12 Credits 6 Credits 6 Credits 6 Credits 30 Credits Semester 4 **Master's thesis** 30 Credits

Curriculum: Electives



Study Plan M.Sc. "Al in Society"



- Tha Augmeted Human
- Gaze-Based HCI
- Responsible Data Science for Safe and Socially Aligned Al Applications
- Law and Digitalization in Action
- Philosophy of Artifical Intelligence
- • •

Target Audience



Be sure to apply if you...

... have completed a bachelor's degree in **social sciences**, **political sciences**, **economics**, **law**, **psychology**, or a related field. **Technical backgrounds** are also very welcome!

... have an interest in **ethical AI practices**, AI **governance**, AI's socio-economic impacts, and the role of AI in **shaping future** societies

Al in Society vs. similar study programs



MSc AI in Society

Your profile

Background in social sciences/politics/tech.
You want to understand AI and its societal aspects.

Jobs

Al consultants, researchers, product managers, Al policy advisors. Ensure the responsible development of Al technologies.

MSc Politics & Technology

Your profile

Background in political sciences. You are interested in political science, public policy, and tech.

Jobs

Policy analysts or advisors in e.g. governmental organizations.

Consultants in tech policy and regulations.

MSc Computer Science

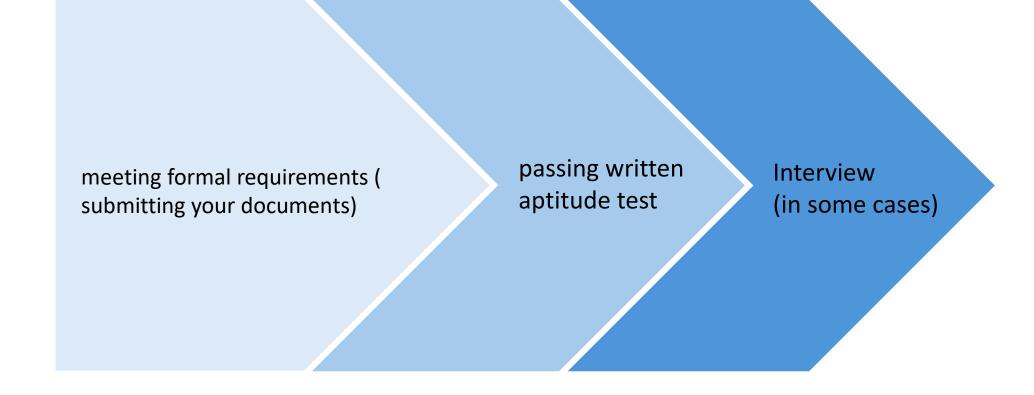
Your profile

Background in computer science, engineering, tech. You want to focus on technical aspects only.

Jobs

Developers of (AI) solutions, i.e. programmers.







Step 1: Formal requirements

- Bachelor's certificate + diploma / Transcript to date
- Transcript of Records
- Proof of English Language Proficiency
- CV
- Preliminary Study Documentation (VPD, see uni-assist.de) if degree from outside EU/EEA
- Optional: Letter of Motivation



Additionally, you need to fulfill the following requirements:

- At least 5 ECTS worth of mathematics / statistics modules
- At least 18 ECTS worth of a practical project

— practical analysis of societal challenges, demonstrating the ability to apply a blend of technical and social science perspectives. For example:

- Data analysis of social media trends
- Developing educational technologies
- Data-driven approaches in healthcare

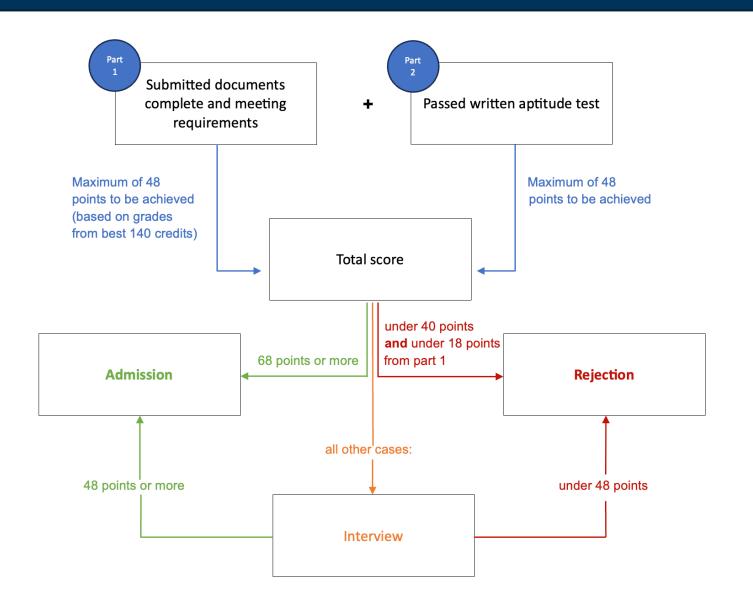
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Step 2: Aptitude test

- Written test
- 90 minutes
- 35 multiple-choice questions from the fields of:
 - Politics and social science
 - Economics and law
 - Mathematics and statistics
 - Science and engineering





Apply here:

https://www.tum.de/en/studies/ application/application-infoportal/online-application

Find more information here (including documents needed for submission):

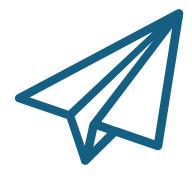
https://www.sot.tum.de/sot/stud
ium/ai-in-society/

More Questions?





Ask now!



Send an E-Mail to: ais@sot.tum.de