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Master's degree

Machine Learning
University of Tübingen • Tübingen

Overview

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<td>Description/content</td>
<td>The Master’s programme in Machine Learning offers a wide choice of courses in machine learning and general computer science. Apart from a few mandatory courses, allows students to choose their subjects according to their interests. Students will attend lectures, seminars, and project lab courses under the supervision of scientists who introduce them to basic and applied research and current topics in machine learning. To pick up on scientific trends and make the best use of the current state of research, the curriculum relies heavily on the strong research presence on site in machine learning (Max Planck Institute for Intelligent Systems, Max Planck Institute for Biological Cybernetics, Excellence Cluster for &quot;Machine Learning in the Sciences&quot;, BMBF Competence Center for Machine Learning, Cyber Valley, IMPRS for Intelligent Systems) as well as in the wider field of computer science. Top-level researchers in all major methodological branches of machine learning are present in Tübingen – personnel that will actively engage in teaching for the Master’s programme in Machine Learning. Since the field is obviously very young and currently developing extremely rapidly, training will naturally be based on the most recent insights and the most pressing research questions of these teaching researchers. Project work and the Master’s thesis will offer students the opportunity to</td>
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develop code for research purposes and their own scientific projects.

As interdisciplinarity is an important aspect, the Master’s thesis can be supervised by a professor of any subfield of computer science.

Course Details

Course organisation
The programme consists of four major study areas: Foundations of Machine Learning, Diverse Topics in Machine Learning, General Computer Science, and Expanded Perspectives. In the first semester, Mathematics for Machine Learning, Deep Learning and Data Literacy are recommended modules, followed by Statistical Learning, Probabilistic Inference and Learning in the next semester. At least one practical course and one seminar are recommended for the second or third semester. The Master’s thesis is recommended for the fourth semester.

Types of assessment
Written and oral exams, lab courses, scientific presentations, graded research projects, Master’s thesis in the second year

A Diploma supplement will be issued
Yes

International elements
- International guest lecturers
- Specialist literature in other languages

Course-specific, integrated German language courses
No

Course-specific, integrated English language courses
No

Costs / Funding

Tuition fees per semester in EUR
1,500

Additional information on tuition fees
Approx. 1,500 EUR per semester for students from non-EU countries

Semester contribution
Enrolment fees at the University of Tübingen are currently about 160 EUR per semester. This includes use of local public transport free of charge from Monday to Friday in the evening, at weekends and on public holidays. In addition, students may purchase a semester ticket for unlimited use of public transport in the city of Tübingen and the surrounding area (currently about 110 EUR).

Costs of living
Estimated basic student expenses are about 950 EUR per month according to the Tübingen Student Services organisation ("Studierendenwerk"), including rent for student accommodation. Rent for private accommodation will be more expensive.
Requirements / Registration

Academic admission requirements

Academic admission requirements include a Bachelor’s degree (or equivalent) in either computer science, mathematics, physics, or related natural sciences with a grade of at least 2.3 (German grading system).

In particular, competences from the following areas are required, equivalent in content and scope to those in the BSc course in Computer Science in Tübingen:

- Mathematics: one- and multidimensional analysis, linear algebra and either numerics or stochastics
- Computer Science: programming, algorithms and data structures (theoretical analysis of algorithms)

Candidates are judged based on the level of interest and their personal fit with the programme, for which we require a letter of motivation and a CV. Applicants must also provide adequate proof of English proficiency (see below).

Language requirements

Applicants must provide adequate proof of English proficiency, documented by one of the following documents:

- German “Abitur” certificate with proof of six (G8) or seven years (G9) of English language instruction
- TOEFL iBT test with at least 94 points
- IELTS test with a score of at least 7.0
- Cambridge Certificate in Advanced English (CAE)
- Higher education entrance qualification from Great Britain, Ireland, USA, Canada, Australia, New Zealand

Application deadline

30 April (for international [non-EU] citizens as well as for German and EU citizens)

Submit application to

Online application: https://uni-tuebingen.de/en/international/study-in-tuebingen/application-for-non-german-students/application-and-admission-of-international-students/

For questions regarding the application process, please contact the International Students Admissions Office by e-mail: study@uni-tuebingen.de

Services

Possibility of finding part-time employment

Students may find jobs as graduate research assistants for projects of the Department of Computer Science as well as for many other research groups, e.g. the Max Planck Institute for Intelligent Systems, or for a company.

Accommodation

Accommodation is available through the Student Services organisation (“Studierendenwerk”) or on the private market. Rooms in student accommodation cost approx. 200 to 400 EUR per month. As Tübingen is a very attractive place to live, private accommodation is more expensive and can take some effort to find. To make sure you find a suitable place to live, you should start looking as early as possible.
We recommend you apply for student accommodation through the “Studierendenwerk” at the same time that you apply for admission to the Master’s programme (https://en.my-stuwe.de/housing/halls-of-residence-tuebingen/ and https://en.my-stuwe.de/housing/faqs/) and send in a copy of your notification of admission as soon as you have received it. (Your application won’t be finally processed before the “Studierendenwerk” has received proof of your admission.) For further information, check out the “Studierendenwerk” page on housing in Tübingen (https://en.my-stuwe.de/housing/).

Career advisory service
The University of Tübingen offers a number of different services that offer helpful advice to those planning on studying in Tübingen as well as to students who are already enrolled here – whether they are just beginning their studies, are well into their studies, or are finishing their studies and planning a career.

Specific specialist or non-specialist support for international students and doctoral candidates
- Welcome event
- Accompanying programme

Support programmes for international students
The university’s Office for Advising and Admission of International Students offers advice on all academic matters (http://www.uni-tuebingen.de/en/90787).

German courses are available at the university’s House of Languages, including "Early Bird" and "Evening Classes" for beginners, specially designed for international Master’s and PhD students. The full German course programme is available here: www.uni-tuebingen.de/en/1056.

The “StudiT” student initiative offers a buddy programme and a wide range of social activities during the “Orientation Week” and throughout the semester (www.studit-tuebingen.de/en/, www.facebook.com/studituebingen).

Contact

University of Tübingen
Faculty of Science
Department of Computer Science
Maria-von-Linden-Str. 6
72076 Tübingen

ml-master@inf.uni-tuebingen.de
Course website: https://uni-tuebingen.de/fakultaeten/mathematisch-naturwissenschaftliche-fakultaet/fachbereiche/informatik/studium/studiengaenge/machine-learning/

Last update 27.09.2021 23:34:59
International Programmes in Germany - Database

www.daad.de/international-programmes
www.daad.de/sommerkurse

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The publication is funded by the German Federal Ministry of Education and Research and by contributions of the participating German institutions of higher education.