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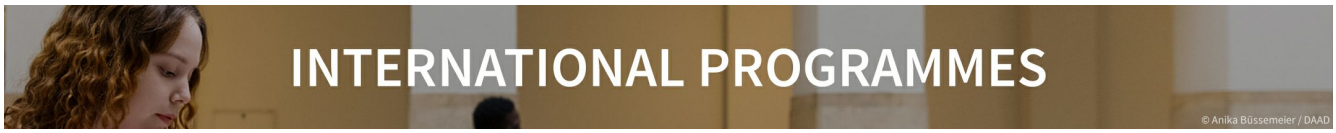

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Bachelor's degree **2**

Data Science • Catholic University of Eichstätt-Ingolstadt • Ingolstadt 2

Bachelor's degree

Data Science

Catholic University of Eichstätt-Ingolstadt • Ingolstadt

Overview

Degree	Bachelor of Science in Data Science
Teaching language	• English
Languages	Our study programme is primarily offered in English. With the possible exception of Digital Transformation of Society, all specialisations can be completed with courses taught in English.
Programme duration	6 semesters
Beginning	Winter semester
Application deadline	Application period for the following winter semester:**April to 15 July** Submission of all required materials via theKU application portal (for applicants with EU university entrance qualification) or via uni-assist Please check the official website and the following PDF for the exact application procedure. • KU Data Science Programme It is recommended to submit the application at your earliest convenience. In this way, if the formal requirements are met or the aptitude test is passed, early admission can be offered.
Tuition fees per semester in EUR	None
Joint degree / double degree programme	No
Description/content	**Why Data Science?** In today's digital world, data is plentiful; the last decade has shown machine learning methods to be spectacularly effective in discovering useful and meaningful underlying patterns in this overabundance of data. Spurred by this development, there is a growing quest for new and refined algorithms, deeper fundamental understanding of methods and their limitations, and expanding fields of application. Data Science is your field of study if you are... • strong in mathematics and analytical thinking, • not afraid of computers and programming,

- and open to applications in technology, business, or social and natural sciences.

Goals of the Programme

As a graduate of the Bachelor's programme in Data Science at the Catholic University of Eichstätt-Ingolstadt (KU), you will master cutting-edge machine learning algorithms and software tools. At the same time, you will have gained broad mathematical and statistical insight to make sense of massive data sets, evaluate results, and develop new approaches and algorithms.

Specialisation areas

You can choose between six specialisation areas linked to active areas of research at the KU:

- Applied Mathematics and Scientific Computing
- Machine Learning and Statistics
- Environmental Science
- Business Analytics and Operations
- Finance and Economics
- Digital Transformation of Society

Career opportunities

The rapid rise of data-driven analysis and decision making has created huge demand for qualified specialists in business and industry, as well as for researchers capable of leveraging and refining data-driven approaches across the entire spectrum of academic disciplines.

As a graduate of the Data Science programme, you will be well prepared to work in analytic and strategic positions in the technology sector, in start-ups, or in public, non-profit, and non-governmental organisations. Just as easily, you may choose to continue your education at Master's or doctoral level at the KU or at a graduate school in the mathematical sciences or technology world-wide.

As courses are taught in English, graduates will find excellent opportunities in the increasingly international Data Science job market.

Course Details

Course organisation	Data Science is an interdisciplinary field of study. Thus, the Data Science programme at the KU provides a well-balanced selection of modules from - Mathematics - Statistics - Computer Science - Programming and Software Engineering - A field of application of Data Science ("specialisation area") - Ethics and transdisciplinary study Teaching methods comprise established and modern techniques. These include lectures with integrated practical exercises, and working in small groups on projects that utilise real-world data sets. **Useful links** - Information for applicants - General programme information - Mathematical Institute for Machine Learning and Data Science (MIDS) » PDF Download
A Diploma supplement will be issued	Yes

International elements	• Integrated/optional study abroad unit(s)
Integrated/optional study abroad unit(s)	An optional semester abroad is recommended in the fifth semester. For more information, see here.
Integrated internships	An industrial internship or a research internship is mandatory. The programme maintains partnerships with local industry as well as academic researchers at the KU and neighbouring universities and institutes. Additional support is provided by KU's Career Center.
Course-specific, integrated German language courses	No
Course-specific, integrated English language courses	No

Costs / Funding

Tuition fees per semester in EUR	None
Semester contribution	71 EUR per semester
Costs of living	Approximately 900 EUR per month (including accommodation, health insurance, food, etc.) Please note that KU has two campuses in two different cities. The cost of living might be lower in Eichstätt and higher in Ingolstadt, depending on the accommodation (e.g. in a student residence or from a private landlord).
Funding opportunities within the university	Yes
Description of the above-mentioned funding opportunities within the university	The KU offers academically qualified international students in financial need a scholarship (450 EUR per month) funded by the Bavarian State Ministry of Science and the Arts through the "Förderung der Internationalisierung" programme. Scholarships are awarded for a period of five months. There is no automatic extension but it is possible to reapply. Please find more information on financial issues, scholarships and prerequisites on our website.

Requirements / Registration

Academic admission requirements	Recognised university entrance qualification Detailed information can be found at: • Requirements for international students • International Office website for degree-seeking students

Language requirements	English language skills at level B2 are strongly recommended. By the end of the second semester of the programme, all students have to prove knowledge of German at beginner level A2. Registration is conditional until then. KU offers German courses that fit each student's needs. Language levels refer to CEFR standards.
Application deadline	Application period for the following winter semester:**April to 15 July** Submission of all required materials via theKU application portal (for applicants with EU university entrance qualification) or via uni-assist Please check the official website and the following PDF for the exact application procedure. • KU Data Science Programme It is recommended to submit the application at your earliest convenience. In this way, if the formal requirements are met or the aptitude test is passed, early admission can be offered.
Submit application to	Applications are submitted online. The application procedure for international applicants depends on where they obtained their "university entrance qualification". Please thoroughly read the information on this website.

Services

Possibility of finding part-time employment	It is possible to find a job as a student assistant ("Hiwi") by contacting professors and university departments directly. Information on current job vacancies can also be found on the website of each chair. There are also different offers for temporary part-time jobs outside the university, for example, in restaurants or in shopping malls. Eichstätt and Ingolstadt are the cities with the lowest unemployment rates in Germany.
Accommodation	The International Office at the KU offers a housing service. It helps international students find accommodation, and it facilitates the contact between students and the future landlord or landlady. This service is free of charge. However, a housing service deposit is charged, and this will be refunded at the end of your rental contract. Please find more information on housing at the KU here.
Career advisory service	https://www.ku.de/en/career-center/ https://www.ku.de/en/international/ku-students/international-internships
Support for international students and doctoral candidates	• Welcome event • Buddy programme • Tutors • Accompanying programme • Specialist counselling • Cultural and linguistic preparation • Visa matters • Help with finding accommodation • Support with registration procedures

Supervisor-student ratio	1:10

Catholic University of Eichstätt-Ingolstadt

Hohe Schule Ingolstadt – Mathematical Institute for Machine Learning and Data Science

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Studying at KU is more than just acquiring specialist knowledge. We broaden our horizons together and take responsibility in and beyond the individual degree programmes. KU has a particular focus on topics such as personal development, sustainability, social skills and social commitment.

KU was ranked "Most Popular University in Germany" in 2021, 2022 and 2024 by the online platformStudyCHECK.de, one of the most prominent information sites for studying in Germany. This award confirms the ideal study conditions at the KU. Our 5,000 students are able to work and learn in a friendly and welcoming atmosphere. They benefit from personal supervision, interdisciplinary study offers, excellent facilities, a well-stocked library, a broad range of sports and leisure activities, comprehensive support from the KU International Office, and a large global network with over 260 partner universities.

The Catholic University of Eichstätt-Ingolstadt (KU) is the only Catholic university in the German-speaking world. It is fully accredited, meaning that the degrees and qualifications it awards are equivalent to those issued by German state universities. The KU is committed to its cosmopolitan character and warmly welcomes students of all denominations and faiths, as well as students of no religious belief.

University location

The Bachelor's programme in Data Science is centred at the Mathematical Institute for Machine Learning and Data Science (MIDS), located in the historic buildings of the first Bavarian university which was founded in 1472, moved to Landshut in 1800 and has been located in Munich since 1826 as Ludwig-Maximilians-Universität. Ingolstadt's history as a university town continued 188 years later: In 1989, the KU Faculty of Economics opened in Ingolstadt. In 2023, the foundation of the MIDS marked the return of university life to the historic city centre.

Ingolstadt, with about 135,000 inhabitants, is the dynamic centre of a culturally and economically growing region. It is one of the cities with the youngest, most diverse, and fastest growing population in Germany. The theatre, the AUDI summer concerts, the jazz days and the Museum of Concrete Art are just a few of the cultural highlights. In a historical setting, a large number of restaurants, clubs and pubs invite you to unwind after lectures and seminars often just a few steps away from campus. The day can also be spent relaxing on the Danube beach or at the lake. And of course, as in any Upper Bavarian city: enjoy the local beer gardens for a "Brezel" and a beer or two. And if you

yearn for something more cosmopolitan, the centre of Munich is only a 40-minute train ride away.

Contact

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International Office
Welcome Services

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Course website: https://www.ku.de/en/study-offer/data-science

https://www.facebook.com/uni.eichstaett

https://de.linkedin.com/school/unieichstaett/

https://www.instagram.com/uni.eichstaett/

https://www.youtube.com/unieichstaett

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International Programmes in Germany - Database

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Disclaimer
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