



Data Science

Please read this information carefully to ensure that you prepare all necessary documents for your online-application package.

Requirements:

- **Bachelor's degree in** Data Science, Mathematics, Statistics, Computer Science, or Physics or a field very closely related. Furthermore, the degree must be **formally equivalent** to a German academic bachelor's degree. If you are unsure whether your international bachelor's degree is formally equivalent to a German one, you can conduct an initial self-assessment at the anabin databank (www.anabin.de).

Admission

All complete applications will be reviewed and may undergo an aptitude assessment process. All applicants who complete the process with an aptitude score (German equivalent grade) of 2.0 or better will be granted admission. Please note that the aptitude score might differ from your bachelor degree grade.

The KU application portal will be open for application to this program from 1 May. In case you need a visa to start your studies in Germany, please apply as soon as possible.

Required application documents are:

1. **Full resume (C.V.)** showing **all of your educational stages**, starting with the last three years of your **secondary school**.
2. **Higher Secondary Education**
 - 2.1 Original or certified true copy of your **secondary higher education** ((high) school leaving certificate / A-levels etc.) **certificate**
 - 2.1.2 Original or certified true copy of German or English translations (where necessary) of the named certificates. Your (high) school leaving/A-levels etc. certificate must show your **final graduation grade!**
 - 2.2 To convert the grade of your secondary school leaving certificate into a German grade, we would need the official grading system of your school. So please prepare for uploading a copy of the official grading system.
 - 2.3 If applicable: university entrance examination certificate from your home country



3 Bachelor Studies

- 3.1 Original or certified true copy of your **university leaving certificate** (bachelor degree or equivalent)
- 3.1.2 Original or certified true copy of German or English translations of the named certificate (where necessary)
- 3.2 Full transcripts (original or certified true copy) of your bachelor studies
- 3.2.1 Original or certified true copy of official German or English translation (where necessary) of the transcript
- 3.3 Your transcript (as well as the translation) must show the average grade of your university degree.
- 3.4 To convert this grade into a German grade, we would need the official grading system of your university. So please prepare for uploading a copy of the official grading system for your specific program.
- 3.5 The following modules must have been completed during the bachelor's program:
 - Analysis I and II for Data Science
 - Linear Algebra I and II
 - Introductory Statistics and Stochastics
 - Optimization for Data Science (i.e., an introductory class on optimization)
 - Introductory Programming class (preferably basic Python programming skills)
 - Algorithms and Data Structures

Please upload your bachelor's transcript and highlight the relevant modules. The competencies listed may be obtained during the first and the second semester; enrollment would be provisional until then. Failure to provide this proof by the end of the second semester will result in deregistration. Please note that you would have to complete the required modules within the first two semesters of your standard period of study. Unfortunately, we do not offer an orientation year or similar.

4. Proof of English Skills on Level B2 (e.g. by TOEFL score of 78 or better, IELTS exam 5.5 or better; bachelor or master degree taught in English - official confirmation of university required- etc.)
5. Proof of the **GRE Subject Test in Mathematics**, mandatory for applicants from **Bangladesh, China, India, Iran, and Pakistan**, and recommended for applicants whose first professional qualifying university degree or equivalent qualification was not obtained in a country that has ratified the Convention on the Recognition of Qualifications concerning Higher Education in the European Region of April 11, 1997 (Lisbon Convention).
6. Applicants who have completed previous periods of study in China, India, Mongolia or Vietnam: **APS certificate**

Further Documents/Additional Skills

7. If applicable: Proof of work experience or internships in the professional fields relevant to the course of study
8. If applicable, proof of subject-related scientific publications.
9. If applicable: Proof of subject-related teaching experience.
10. If applicable, proof of extracurricular activities in the field of Mathematics or Data Science (e.g., participation in recognized subject-related competitions, involvement in science communication, etc.).

Information on the contents of the program as well as the application period can be found here:

<https://www.ku.de/en/study-offer/data-science-msc>

For further information regarding the admission requirements etc., please send an email to welcome@ku.de.

We are looking forward to receiving your application!