Student Assistant (HiWi / SHK)
Software Engineering Assistant – Probabilistic Machine Learning (m/f/x)
5–10 hours/week

The Cluster of Excellence "Data-Integrated Simulation Science" (EXC 2075) is an interdisciplinary research center with more than 200 scientists of different ages, gender identities, nationalities and different subject areas, jointly performing research towards a common goal: We target a new class of modeling and computational methods based on available data from various sources, in order to take the usability, precision and reliability of simulations to a new level.

Your tasks:

- Collaborate with the scientific core team to develop software at the cutting edge of probabilistic machine learning in Python or R
- Assure high software quality through unit tests, integration tests, and system tests
- Implement CI/CD pipelines (continuous integration, continuous deployment)
- Prepare literature reviews in the area of machine learning and computational statistics
- Publish research results as co-author (if desired)

Your qualifications:

- Enrolled at a German university; it is not necessary to be enrolled at the University of Stuttgart and it is not necessary to be located in Stuttgart
- Studying towards a degree with a strong technical focus (e.g., computer science, physics, …)
- Highly motivated, curious, and eager to learn continuously
- Previous experience in a high-level programming language (e.g., Python, R, or Julia)
- Basic understanding of applied statistics, mathematical statistics, or machine learning (e.g., from university courses or data analysis projects)
- Proficient English skills (spoken and written); German skills are an asset, but not required

Ideal additional qualifications:

- Previous experience with documentation engines or markup languages (e.g., LaTeX, sphinx, Markdown, Quarto)
- Previous experience in software development or DevOps (git, unit testing, continuous integration, continuous development)

We offer:

- An inspirational and supportive research environment at the Cluster of Excellence SimTech with ample networking opportunities
- A nationally and internationally well-connected research group
- Diverse and responsible tasks in a growing interdisciplinary and intercultural team
- Dedicated time for learning and training in software development skills during work
- Compensation according to the University rates for student assistants.

Please submit your application (CV and a short motivation letter) in **one single PDF file** via marvin.schmitt@simtech.uni-stuttgart.de. Applications will be considered **on a rolling basis** and the position will be filled as soon as possible. If you have a portfolio to showcase your programming expertise (e.g., GitHub), please add a link to it in your CV or your motivation letter. The application can be written in English or German. If you have any questions regarding this application, please contact Marvin Schmitt directly via marvin.schmitt@simtech.uni-stuttgart.de.

We explicitly encourage applications from female researchers, we are also welcoming to people of the LGBTQI* group. Also, if you have any disabilities and are interested to apply, please do not hesitate to answer to this call.

We cannot reimburse any costs arising from the performance of job interviews. However, we offer interviews to be held online.

At the University of Stuttgart and the Cluster of Excellence EXC 2075, we actively promote diversity among our employees. We have set ourselves the goal of recruiting more women scientists and employing more people with an international background, as well as people with disabilities. We are therefore particularly pleased to receive applications from such people. Regardless, we welcome any good application.

Women who apply will be given preferential consideration in areas in which they are underrepresented, provided they have the same aptitude, qualifications and professional performance. Severely disabled applicants with equal qualifications will be given priority.

As a certified family-friendly university, we support the compatibility of work and family, and of professional and private life in general, through various flexible modules. We have an employee health management system that has won several awards and offers our employees a wide range of continuing education programs. We are consistently improving our accessibility. Our Welcome Center helps international scientists get started in Stuttgart.

Information in accordance with Article 13 DS-GVO on the processing of applicant data can be found at https://careers.uni-stuttgart.de/content/privacy-policy/?locale=en_US