Doctoral Candidates in project Sustainable and Easily Accessible AI (MWK)

About us
At the Division Applied Artificial Intelligence (Prof. Dr. Daniel Sonntag), Department of Computer Science of the Carl von Ossietzky University of Oldenburg, three positions are currently available in Applied Artificial Intelligence.

Your tasks
To develop robust methods for quantifying the diverse impacts of explainable artificial intelligence (XAI) on sustainability across all ecological, economic, and social dimensions. This project will significantly contribute to achieving the Sustainable Development Goals (SDGs) (United Nations, 2015).

Special AI transfer topics in collaboration with the German Research Center for Artificial Intelligence (DFKI): interactive machine learning, explainability (XAI), transparency, fairness, robustness, machine teaching, information extraction (IE) and natural language processing (NLP), semantic web, common sense modelling, or hybrid cognitive technologies.

Your profile
For a Doctoral candidate: a university degree (Diploma (Uni)/ Master) in computer science, mathematics, computational linguistics, media informatics or a related discipline. State-of-the-art machine learning for image analysis, information extraction from medical texts, and/or HCI concepts and algorithms for human-in-the-loop machine learning (in virtual reality); you should also have experience working with AI technology for modelling context parameters. Additional knowledge of deep learning platforms for image analysis or concepts for sustainability and health & wellbeing applications would be an asset. Other desirable skills include GPU programming, AutoML, TensorFlow, PyTorch or RapidMiner, or symbolic reasoning for decision making.

- Well-developed communication skills, and willingness to work both independently and within our interdisciplinary research team
- Strong experience with experimental laboratory setups, hardware-software interfacing
- Excellent command of English (spoken and written)

Successful candidates are required to become adept at scientific paper writing; and presenting scientific findings will be important, as well as implementing demo systems for user evaluations and project deliverables.

We offer
• An excellent opportunity to make progress in the field of applied artificial intelligence

• Excellent opportunities to continue your personal and professional development

• Strong involvement in project cooperation with international and national partners, both from industry and research

• An experienced interdisciplinary team (20-30 professionals) that works on adjacent topics and is highly visible in related international research communities

Our standards
The University of Oldenburg is dedicated to increase the percentage of female employees in the field of science. Therefore, female candidates are strongly encouraged to apply. In accordance to § 21 Section 3 NHG, female candidates with equal qualifications will be preferentially considered. Applicants with disabilities will be given preference in case of equal qualification.

Further information
These posts are available immediately, for a fixed term contract, 3 years. The positions serve the qualification of junior scientists. They offer the opportunity to do a doctorate.

Apply now
Please send your application via e-mail by 05.01.2025 to christiane.grossmann@uol.de
Applications can be sent electronically as one PDF with reference **"AAI-004-MWK"** and should include a full CV, copies of certificates and two references, and the earliest possible starting date.

Position Details

- **Paygrade** E13
- **Working Hours** 100% (suitable for part-time)
- **Institution** School II of Computing Science, Business Administration, Economics, and Law, Department of Computing Science, Division Applied Artificial Intelligence
- **Location** Oldenburg (Old)
- **Application Deadline** 05.01.2025
- **First day of work** as soon as possible
- **Limited** for 3 years

Your benefits

- **Secure remuneration according to collective agreement**
- **30 days vacation**
- **Company pension scheme**
- **Further training opportunities**
- **Flexible working hours**
- **Health management**
- **Mobile working**
- **Compatibility of career and family**