Job vacancy

Postdoctoral research associate - Institute of Data Science 26/Sa01

University of Greifswald, 30 January 2026 | deadline: 15 February 2026

At the University of Greifswald's **Institute of Data Science** in the Faculty of Mathematics and Natural Sciences, there is a job vacancy from **1 April 2026,** subject to the allocation of funds, for a full-time

Postdoctoral research associate.

The position is to be filled for a **limited period of 36 months**. Payment will be made according to pay group 13 *TV?L Wissenschaft*. The position is suitable for part-time employment.

Germany is undergoing profound demographic change, characterised by an ageing population and declining birth rates. This development is accompanied by an increase in age-related chronic diseases - and thus a significant growth in the need for long-term care. The increase in cognitive impairments such as mild cognitive impairment and dementia, which require a high level of care, is particularly serious. At the same time, the shortage of nursing staff is reaching alarming proportions. In view of these challenges, innovative solutions are needed.

The BehAIve project will make a promising contribution in this area. It aims to develop an AI-supported, situation-adaptive system to support older people in their everyday lives or geriatric patients during hospital stays. Continuous monitoring using sensors will analyse subjects' behaviour, identify problematic behaviour and offer targeted support where necessary. This can significantly improve the quality of life of people with cognitive impairments or geriatric patients - while also reducing the workload of nursing staff. The sub-project 'Multimodal Behaviour Analysis and Interaction' deals with the development and implementation of methods for automatic knowledge extraction, multimodal behaviour analysis and language-based interaction.

For more details about the overarching research questions, specific topics approached by this position in the sub-project 'Multimodal Behaviour Analysis and Interaction', and contact persons, please visit https://datascience.uni-greifswald.de/forschung/projects/behaive/.

Job Description:
The postdoctoral research associate in the project 'Multimodal Behaviour Analysis and Interaction' will have the following responsibilities:

- Development of methods for automatic knowledge extraction and model learning from textual data
- Development and learning of semantic models such as ontologies and knowledge bases and their population with textual and sensor data
- Development of methods for the automatic quality assurance of heterogenous data
- Development of interactive assistants based on large language models and GraphRAG approaches
- Co-supervision of doctoral candidates in the context of the project
- Publication of the obtained results in scientific journals and at conferences

Job Requirements:

We invite applications from highly motivated candidates with above-average qualifications, passion for and experience in research, and the willingness to actively participate in an interdisciplinary and international research environment. Successful applicants should have:

- Doctoral degree in artificial intelligence, data science or another related discipline, by the time employment starts
- Solid practical experience in machine learning, especially deep learning and its practical application in the domain of language processing and sensor analysis
- Solid practical experience in the field of natural language processing, especially large language models, prompt engineering, finetuning, retrieval augmented generation (RAG), GraphRAG and named entity recognition and relation extraction approaches
- Experience with methods for data quality assurance
- Hands on experience with Python
- Excellent English language skills
- Motivation to join an interdisciplinary and international research environment.

This vacancy is open to all persons, irrespective of gender. Severely disabled applicants with the same qualifications will be considered with preference.

In accordance with § 68(3) PersVG M-V, the Staff Council will only be involved in staff matters of the academic or artistic staff on request.

Unfortunately, application costs (e.g. travel expenses for interviews) will not be reimbursed by the state of Mecklenburg-Vorpommern.

Please note that by submitting your application, you provide your consent pursuant to data protection law for our processing of your application data. Further information about the legal bases and the use of your data can be found here.

Applications comprising all usual documents must be sent with reference to the job advertisement number **26/Sa01** by **15 February 2026**, preferably via email (one PDF file), to:

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Institut für Data Science
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