Doctoral Research Associate

The Machine Learning and Data Engineering group at the Department of Information Systems at the University of Münster (Germany) is offering two PhD positions in machine learning and/or data engineering commencing as soon as possible:

*Doctoral Research Asscociate
(''Wissenschaftliche/r Mitarbeiter/in'';
salary level TV-L E13 100%)*

The analysis of large amounts of data has gained considerable attention over recent years. One reason for this phenomenon is the fact that the data volumes have increased dramatically in various domains. This is the case, for instance, in remote sensing, where satellites produce data volumes in the petabyte range per year. A similar ''data flood'' can be observed in many other disciplines as well including medicine, social media, finance, or in the context of modern energy systems. The successful candidates will contribute to research activities in at least one of the following fields:

- deep learning
- development of parallel/distributed implementations of machine learning techniques
- acceleration of machine learning models in the context of modern database systems
- efficient implementation of machine learning techniques given limited computing and memory resources (e.g. training models on an Arduino)
- application of data analysis techniques (e.g. in the geosciences, physics, the medical domain or in the context of modern energy systems)

The current research projects are conducted in collaboration with national and international partners (e.g. with the University of Copenhagen) and these collaborations shall be intensified within the next few years.

Who are we looking for?

We are seeking excellent candidates, who exhibit the following profile:

- Master's in Information Systems, Computer Science, Geoinformatics, Mathematics, Physics, or a related field.
- demonstrated knowledge in the field of machine learning and/or in the field of data engineering
- good programming skills (e.g. in Python)

- excellent communication skills, as well as proficiency in spoken and written English are expected (knowledge of German is not required but is a plus)

The fixed-term posts are available for a 36 month term (with the possibility of an extension) and for the regular full employment time, currently 39 hours and 50 minutes per week. The University of Münster is an equal opportunity employer and is committed to increasing the proportion of women academics. Consequently, we actively encourage applications by women. Female candidates with equivalent qualifications and academic achievements will be preferentially considered within the framework of the legal possibilities. We also welcome applications from candidates with severe disabilities. Disabled candidates with equivalent qualifications will be preferentially considered. All posts can, as a rule, also be filled as part-time positions if there are no compelling work-related reasons against doing so.

What are your tasks?

Your task is to contribute to the research activities outlined above. The research results shall be published at international conferences and in journals in the fields of machine learning and data engineering. You are also expected to contribute to the teaching and administrative activities of the working group. The positions provide the successful candidates with the opportunity to work towards attaining a PhD.

How can you apply?

For further information about the position or the application procedure, please contact us directly. Please submit your application by 1 August 2020 as a single PDF file containing your CV, copies of certificates/transcripts, and a brief description of your research interests sent via e-mail to:

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