Stellenticket

Helmholtz-Zentrum Dresden-Rossendorf e.V.

With cutting-edge research in the fields of ENERGY, HEALTH and MATTER, around 1,500 employees from more than 70 nations at Helmholtz-Zentrum Dresden-Rossendorf (HZDR) are committed to mastering the great challenges facing society today. The Department of Information Services and Computing is the service, consultation and coordination centre for the Information Infrastructure of the HZDR. The Department of Computational Science is looking for a

Scientific Employee (f/m/d) Machine Learning with Computer Vision Expertise

City: Dresden; Starting Date: 01/02/25; Renumeration: TVöD-Bund; Reference number: 2024/176; Closing date: 03/01/25

Working field

- Design, implementation, comparison and testing of uncertainty quantification of AI models for computer vision in collaboration with other team members
- Research on current topics of image analysis/computer vision and generative AI in terms of uncertainty determination
- Creation of reusable and open tools for determining uncertainties in AI models of computer vision (and possibly beyond) in collaboration with industry or scientific partners
- Translation or transfer of findings on uncertainty quantification in applications in the field of matter and/or the life sciences

Requirements

- Completed university studies (Master/Diploma/PhD) in the field of Computer Science, Mathematics, Natural Sciences or related disciplines
- You have basic understanding of reproducible science and the principles for Open Science
- You have a good understanding of mathematical and algorithmic concepts such as e.g. Deep learning based classification and regression (segmentation or domain adaptation)
- You have proven expertise in machine learning and related project contributions (publication in peer reviewed journals or conferences is considered a bonus) on this topic
- You have proven expertise in data science or statistical data analysis and related project contributions (publication in peer reviewed journals or conferences is considered a bonus) on this topic
- You have programming experience in Python (R, Julia, Rust are considered a bonus)
- You have experience with machine learning APIs, libraries and frameworks such as pytorch, keras, scikit-learn
- You have experience in using high-performance computing systems
- You enjoy learning new and developing your skills
- You are creative and would like to implement our ideas in a team

-You have a tolerant and open approach to your work
-You bring self-motivation, self-reflection and willingness to cooperate
- You have conversational skills in German and excellent English skills in writing and conversations

What We Offer

- A vibrant research community in an open, diverse and international work environment
-Scientific excellence and extensive professional networking opportunities
- Salary and social benefits in accordance with the collective agreement for the public sector (TVöD-Bund) including 30 days of paid holiday leave, company pension scheme (VBL)
-We support a good work-life balance with the possibility of part-time employment, mobile working and flexible working hours
-Numerous company health management offerings
- Employee discounts with well-known providers via the platform Corporate Benefits
-An employer subsidy for the "Deutschland-Ticket Jobticket"

Application
We look forward to receiving your application documents (including cover letter, CV, diplomas/transcripts, etc.), which you can submit via our online-application-system: https://www.hzdr.de/db/Cms?pNid=490&pLang=en&pOid=73507

More information at https://stellenticket.de/190084/
Offer visible until 03/01/25

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