The Center for Information Services and High Performance Computing (ZIH) is offering a position, subject to the availability of resources, within the research project "DaFne – Platform Data Fusion Generator for Artificial Intelligence" as

**Research Associate**  
(subject to personal qualification employees are remunerated according to salary group E 13 TV-L)

starting **as soon as possible** until September 30, 2023. The period of employment is governed by the Fixed Term Research Contracts Act (Wissenschaftszeitvertragsgesetz - WissZeitVG). Balancing family and career is an important issue. The position is generally suitable for candidates seeking part-time employment. Please indicate your request in your application. The position offers the chance to obtain further academic qualification.

In the DaFne project, methods for generating synthetic training data for artificial intelligence (AI) in the area of smart cities and mobility data are being developed and made available to the public. Synthetic training data serve data protection and enable the use of AI for future scenarios for which no or insufficient data sets are yet available. Working at ZIH offers you creative scientific work on the future topics of data science and AI with internationally known experts, state-of-the-art – for data analytics and machine learning optimized – IT infrastructure, the chance to obtain further academic qualification, agreements on flexible working hours and mobile work, a family-friendly working environment and life in a city of science and culture surrounded by a unique landscape.

**Tasks:**
- scientific research and development work in the area of quality assessment of synthetic training data generation methods
- evaluation and extension of published quality criteria considering the specific use-case in the area of smart cities and mobility data
- development of visualization methods in relation to quality of synthetic data
- integration of the quality assessment in an end user platform
- cooperation with the national German competence center for Big Data and Artificial Intelligence ScaDS.AI Dresden/Leipzig
- publication of results and presentation at scientific conferences

**Requirements:**
- university degree in mathematics, computer science or a comparable engineering or natural science
- very good knowledge and experience in the fields of statistics and data science
- knowledge in the areas artificial intelligence, machine learning or data analytics
- a high degree of independence, commitment, flexibility and team spirit
- very good English communication skills.
- Experience with HPC systems, cloud computing, visualization tools and data management methods is also desirable.

Applications from women are particularly welcome. The same applies to people with disabilities. Please send your application with the usual documents under the **job ID "DaFne-1"** until **October 19, 2021** (stamped arrival date of the university central mail service applies) preferably via the SecureMail Portal of the TU Dresden [https://securemail.tu-dresden.de](https://securemail.tu-dresden.de) as a PDF document to **zh@tu-dresden.de** or to **TU Dresden, Zentrum für Informationsdienste und Hochleistungsrechnen (ZIH), Herrn Prof. Dr. Wolfgang E. Nagel, Helmholtzstr. 10, 01069 Dresden.** Please submit copies only, as your application will not be returned to you. Expenses incurred in attending interviews cannot be reimbursed.
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