Software Developer (part-time possible)

We are looking for additional Software Developers to extend our existing team that is implementing mathematically sophisticated sensor fusion and automatic data analysis algorithms with knowledge in the field of machine learning / AI methods.

About Us

In pursuit of our mission to revolutionize manufacturing, we transform data into knowledge.

We are an international data science company, specialized in self-learning systems and AI, for data analysis and state prediction in complex systems.

Founded in 2011 originating from the Karlsruhe Institute of Technology (KIT), we deal with the development and implementation of AI solutions from embedded devices to cloud applications at our location in Karlsruhe. Our strength lies in the development and application of tailor-made algorithms for processing sensor and machine data (Industry 4.0).

We always focus on resource-efficient development and seamless integration into existing control and monitoring software. Our successes can be found in a wide range of industries, from medical technology and aviation to building technology and energy supply to means of transport and, last but not least, mechanical engineering. Our customers range from micro-enterprises to large international industrial groups.

What can you expect?

We offer you a diversified collaboration within exciting, international projects in an ambitious and fast-growing company offering a modern working environment as well as all the benefits of a successful company including the possibility of employee participation in the company's success.

Your Key Responsibilities:

- Analysis of novel AI methods (e.g., from the field of one-shot learning and deep learning) with regard to their suitability for embedded devices and current IoT / Industry 4.0 challenges
- Design of algorithms for data fusion and filtering
- Creation of mathematical models of complex processes
- Implementation and testing of different AI methods on existing data sets
- Optimization of AI methods with respect to the achievable quality in test data sets
- Development of software from functional prototypes to product

- Adaptation of the software into embedded device or cloud solutions
- Integration of the AI models into the overall software solution

What do we expect?

- Successfully completed studies in computer science (University / University of Applied Sciences) or a comparable education
- Several years of experience in software development (e.g. Java, C/C++, Python)
- Profound knowledge in sensor fusion algorithms (e.g. Kalman filter, UKF) and machine learning methods (e.g. neural networks, deep learning, one-shot learning)
- Structured and solution-oriented work style, strong analytical skills and capacity for teamwork
- Reliability and high awareness of quality
- Very good verbal and written communication skills in German and English

Your Benefits!

- Exciting scientific research topics as well as their implementation in industrial solutions
- Opportunity to actively participate in complex technical projects
- Optimal onboarding and handling of varied tasks with a lot of creative freedom
- Flat hierarchies, cooperation at equal level, room for new ideas
- Development opportunities through independent work, diverse feedback and networking opportunities, social responsibility and sustainable practices
- Attractive, modern workplace in a growing company with excellent public transport accessibility in Karlsruhe
- Modern working environment with the possibility to flexibly switch between home office and attendance
- Team events and team building as well as free drinks in the office: coffee, water, tea

Application

We look forward to receiving your application via email at: career@knowtion.de

Please address your application directly to the managing directors:

Dr. Frederik Beutler, Vesa Klumpp and *Dr. Thomas Kopfstedt*

If you have any further questions, feel free to contact us by phone at: +49 721 486 995-10