

Become a part of an interdisciplinary, highly motivated project team and design trendsetting ways for the automation industry. Together with TU Munich Professors Massimo Fornasier and Felix Krahmer, at the Faculty of Mathematics, of the research group Applied Numerical Analysis and Optimization and Data Analysis, industrial companies are researching robust and intelligent algorithms that are able to react to changes in reality and dynamically adapt to new conditions. For example, algorithms should autonomously recognize when they need to be retrained or calibrated, when they need additional data, or when they can reduce data acquisition. A powerful meta learning process for industrial AI models shall use metadata to continuously adapt algorithms to new situations. This will lead to essential insights and at the same time to new questions in the areas of data compression and dimensional reduction.

Holsten Systems is looking for an

AI ENGINEER / MATHEMATICIAN (M/W)

Workplace: Garching | Starting from September | Languages: German, English | Permanent position

FIELD OF ACTIVITIES

Your responsibility is to support the project team with your knowledge and proactive work in the planning, design and implementation of analytics solutions.

This includes:

- » development of AI-supported solutions for project-specific applications in an industrial context
- » development of dynamically learning and modularly operating algorithms (incl. meta learning methods)
- » development of a concept for hybrid analysis models to include expert knowledge

QUALIFICATION

You have a degree in applied mathematics or theoretical physics.

Ideally your profile meets the following criteria:

- » curiosity, intrinsic motivation, explorative and open mindset
- » expertise in time and event series analysis
- » expertise in one or more of nonlinear systems analysis, probabilistic theory and graphs, optimization theory
- » capabilities with Python for analytical modelling (beginner level or higher)
- » basic understanding of modern data architectures and data structures in industrial applications
- » understanding of modern machine learning approaches: neural networks, optimization algorithms, reinforcement learning



ABOUT THE PROJECT

The overarching goal of the research project “REMORA” is to drastically shorten today's expensive AI development processes for industrial applications, generating added value and driving more widespread use of Artificial Intelligence.

Central focus of the research:

- » High-quality industrial data
- » Robustness of algorithms
- » Dynamic adaptation of data streams and analytic models.

REMORA will use results from the proposed project to develop microservices that ensure automated, efficient, and profitable integration of data science and AI for enterprises active in the field of automation.

ABOUT US

HOLSTEN is an owner-operated and independent engineering office for automation technology in Garching. Since 2011 we have offered top-class engineering services in the field of building and industrial automation. Our strength is the combination of classical automation technology with economic thinking, a pioneer spirit and the ambition to think beyond the status quo every day.

- » We love to break through encrusted structures.
- » We think freely and strive for real efficiency.
- » We are young, strong and ambitious and are always rethinking our actions.

More than 15 years of experience in automation technology and software development help us to successfully master the combination of these two areas with our customers.

We are looking forward to employees, partners and customers who are willing to think beyond the status quo and see digital progress as an opportunity.

Please contact Elena Holsten for further information and send your complete resume via email to eho@holsten.io.

