



FORSCHUNGSPRAXIS (M/F/D)

fortiss is the research institute of the Free State of Bavaria for the development of software-intensive systems with headquarters in Munich. The scientists at the institute cooperate in research, development and transfer projects with universities and technology companies in Bavaria, Germany and Europe. The focus is on research into state-of-the-art methods, techniques and tools for the development of software- and AI-based technologies for dependable, secure cyber-physical systems such as the Internet of Things (IoT). fortiss is organized in the legal form of a non-profit limited liability company. Shareholders are the Free State of Bavaria (majority shareholder) and the Fraunhofer-Gesellschaft zur Förderung der angewandten Forschung e.V. www.fortiss.org

We are investigating operating data of solar thermal power plants to derive recommendations for process optimizations. More specifically we are looking into soiling models of mirror surfaces and predictive process models using machine learning.

ANALYSIS OF OPERATING DATA OF SOLAR THERMAL POWER PLANTS WITH MACHINE LEARNING

Your tasks:

- Analysis of operating data of a solar thermal power plant
- Implementation of ML models that predict soiling and other process data
- Interpretation of results to derive recommendations for process optimization

Your profile:

- TUM EI master student
- Familiar with ML tasks and strong background in Python and PyTorch
- Feel comfortable reading research papers
- Excellent communication skills in German or English

Our offer:

- Knowledge in cutting-edge ML, insightful tech talks and scientific guidance
- Chance of paper publishing
- Connections to industry

Did we catch your interest?

Please submit your application with a detailed CV and a current transcript of records.

Contact: Stefan Matthes (matthes@fortiss.org)