



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

WORKING STUDENT (M/F/D)

Your tasks:

- Investigate on the state of the art of **automatic labeling** of data in the context of **autonomous driving**;
- Investigate on the state of the art of **context-based learning** and **context identification** of data applied to **autonomous driving**;
- Investigate on **object detection** and **segmentation** from **images** and **lidar** data;
- Investigate on **unsupervised learning** techniques;
- Search for publicly available **datasets** on the topic;
- **Implement** relevant **machine learning** methods.

Your profile:

- Registered as a student in a German university;
- **Highly motivated** researcher, interested in learning and sharing knowledge;
- Experience with **image segmentation** and **detection** tasks;
- Experience with **unsupervised learning** tasks;
- Good background knowledge in **deep learning** and **computer vision**;
- Experience with **object-oriented programming**;
- Experience with deep learning related implementations in Python and PyTorch;
- Good communication and scientific writing skills in **English**.

Our offer:

- 2-month full position or 4-month half position working student contract according to TV-L, starting immediately;
- Knowledge in cutting-edge ML, insightful tech talks and sufficient guidance;
- Flexible working conditions, e.g., home office and free coffee and beverage;
- The opportunity to write research papers.

Did we catch your interest?

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

Contact: Carlos Valle valle@fortiss.org