•Applying established image analysis techniques to our available da

Karlsruhe Institute of Technology

Earliest start 01.02.2025

Institute for Automation and Applied Informatics (IAI)

Working Student / Werkstudent

Title: Image analysis in Imaging Flow Cytometry

Are you ready to explore the exciting world of biomedical innovation? Passionate about computer vision? Eager to take your deep learning skills to the next level? Join our dynamic team as a Working Student and be part of groundbreaking advancements in cellular analysis through imaging flow cytometry.
Your contributions will drive the development of state-of-the-art computational techniques for biomedical image analysis, helping to shape the future of medical research and diagnostics.

Tasks

As part of our group, your responsibilities will include:

- Literature research to explore state-of-the-art methods for the analysis of imaging flow cytometry data
- Planning, executing, and documenting experiments
- Applying established image analysis techniques to our available datasets
- Improvement of existing analyis methods

Requirements:

The following skills, abilities, and knowledge are necessary:

- Enrolled student in in Computer Science / Engineering, Biomedical Engineering or related fields
- Basic knowledge in deep learning and image processing
- Experience with programming in Python
- Experience with image processing libraries in Python such as OpenCV.
- Experience with Python-based deep learning frameworks (PyTorch, JAX, or TensorFlow)

Benefits:

- Language: German or English
- Possibility to work from home
- Onboarding

Interesting for you? Please send an e-mail with your resume and transcript of records to the contact person below.

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