

Work at VivaScope

One team. One goal. We want to save time, with innovative medical products & workflows. Targeted. Precise. Committed. Are you as fascinated by medical technology as we are? Then you've come to the right place! Our laser is changing cancer diagnostics with state-of-the-art technology - for patients and doctors worldwide. And that's exactly why we need your support. **VivaScope GmbH is a Munich-based company** that has been operating under the umbrella of MAVIG GmbH for 15 years. Since January 2021 we are operating as an independent company. We are developer, manufacturer and distributor of confocal laser scanning microscopes that enable time-efficient and non-invasive analysis to quickly distinguish between pathogenic and healthy tissue.

We are developing new and improving existing software in-house and with partners and are looking for a highly skilled, independent Senior AI Software Engineer to join our team. This is a pioneering role, as you will be the first AI expert in a team of software engineers with expertise outside the AI field. You will play a crucial role in designing and implementing machine learning solutions to analyse confocal microscopy images of various tissues, helping us identify and classify different types of lesions.

You must have a proven track record in AI/ML, particularly with image analysis, and be confident working independently to drive the project from conception to production. You will be working on a project with cooperation partners from different disciplines and strong communication skills are essential, as you will need to explain complex AI concepts and project progress within the project team and also to non-specialist colleagues.

Senior AI Software Engineer (Medical Imaging) (m/f/d)

Key Responsibilities:

- **Develop and Deploy AI Solutions:** Lead the end-to-end development of an AI model to classify tissue lesions from confocal microscopy images.
- **Image Data Processing:** Prepare, process, and augment datasets to ensure quality and variety in training data.
- **Model Selection and Training:** Select suitable model architectures (e.g., CNNs, transformers) and frameworks; train and validate models to achieve high diagnostic accuracy.
- **Collaboration and Knowledge Sharing:** Work with a team of software engineers to integrate AI solutions into our workflow; document and explain AI methods to team members effectively.
- **Continuous Improvement:** Keep up with advancements in AI, especially in medical image analysis, and continuously improve the model with new data.

Required Skills and Qualifications

- **Hands-on AI/ML Experience (5+ years):** Proven expertise in machine learning with a focus on computer vision and medical imaging.
- **Strong Knowledge of Deep Learning Frameworks:** Extensive experience with TensorFlow, PyTorch, or similar frameworks.
- **Experience with Image Data and Annotation:** Skilled in processing and working with annotated datasets, including data augmentation and preparation.
- **Model Optimization:** Ability to optimize models for performance and efficiency, especially for high-resolution images.
- **Programming Skills:** Strong in Python; experience with cloud platforms (e.g., AWS, GCP) for deploying machine learning models.
- **Independent Problem-Solver:** Proven ability to work autonomously in designing and delivering AI projects, with minimal guidance.
- **Effective Communication Skills:** Fluent in English, with the ability to clearly explain complex AI concepts to non-AI experts.

Preferred Additional Skills

- **Medical Imaging Background:** Prior experience working with medical or biological image data, such as histology or confocal microscopy images, is a strong advantage.
- **Experience in Computer Vision for Medical Applications:** Familiarity with transfer learning, segmentation, and classification techniques in medical imaging.
- **Knowledge of DICOM and Medical Data Standards:** Experience with handling and managing DICOM files and working with healthcare data standards.
- **Project Management Skills:** Ability to manage AI project timelines and milestones effectively.

What We Offer:

- Flexible working & homeoffice
- Modern offices
- Young and diverse team from different nations
- Individual opportunities for further training
- Staff events
- Short decision-making-processes and short communication channels
- 30 days vacation
- Company pension plan
- and more corporate benefits

If you enjoy working in a technically demanding environment and are interested in varied and complex tasks, we look forward to receiving your informative application documents by e-mail in PDF format, including details of your salary expectations.

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