Machine Learning Engineer

Full-time permanent employee, Munich, Germany

We are at the dawn of a new era: the omic era. New 'omic' technologies revolutionize medicine and lifestyle by producing large datasets from the molecular analysis of human samples. OmicEra Diagnostics aims to catalyze this revolution. We have developed a next-generation mass spectrometry pipeline allowing the mining of big data for the understanding of human health and disease states. This will ultimately result in earlier disease diagnostics, improved patient outcome, and novel treatment possibilities. Our team is fueled by a diverse knowledgebase, including leading proteomic scientists, physicists, artificial intelligence enthusiasts, and serial entrepreneurs. Together, we aim to change the way we think about medical diagnostics and implement the latest omics technologies in clinical routine.
We are based in Munich's biotech cluster in Planegg, offering an interdisciplinary environment with close connections to the renowned Max-Planck-Institute of Biochemistry, the Ludwig-Maximilians-University (LMU) Biocampus and the LMU university hospital, one of the largest hospitals in Europe. Additionally, we benefit from close collaborations with leading industry partners around the globe, offering cutting edge technology as well as fast and continuous development of our proteomics pipeline.

Your opportunity:

You are a skilled professional machine learning engineer and want to translate groundbreaking science into next generation medical diagnostics and improved patient care?

Join OmicEra! We are looking for an experienced ML engineer to join our ML and data analysis team. Using cutting-edge mass spectrometry (MS)-based proteomics technology, we acquire high dimensional data from clinical samples. You will be part of our experienced R&D team, working in a Scrum setting to develop innovative approaches to apply ML to proteomics and other omics datasets. The driving focus of the team is to extract knowledge from clinical samples to generate large scale datasets produced by OmicEra Diagnostics' technology platform with the aim to discover novel cancer biomarkers to improve patients outcome.
Possible projects and goals include:

- Improving and extending our internal ML pipeline to bring the best models into our production environments
- Developing novel ML approaches for complex mass spectrometry data to increase the sensitivity and specificity of our technology platform and to provide additional value for proteomics studies
- Supporting our team with ML solutions regarding new challenges and opportunities

Your work will directly contribute to the company's success.

Your profile:

- B.Sc., M.Sc. or Ph.D. in Computer Science / Bioinformatics / Statistics / Physics / Mathematics or related fields

Contact: Dr. Philipp Geyer
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- Enthusiasm for tech and helping humanity on a large scale
- Motivation to work collaboratively in a dynamic, agile team environment
- Ability to write clean, well-structured, documented Python code
- Significant industry experiences in ML engineering (scikit-learn and PyTorch / TensorFlow Keras) for supervised and unsupervised learning on small and large datasets
- Proficiency with Git, CI/CD, Cloud computing (AWS), software testing, and Docker
- Beneficial but not required technical expertise:
    - Bioinformatics (on omics datasets, preferably proteomics datasets)
    - Databases (SQL, MongoDB)
    - Workflow management (Apache Airflow)
- Excellent communication skills in English

What we offer:

- An agile and dynamic team dedicated to make a difference in medical diagnostics
- A healthy and fun start-up environment with a flat hierarchy
- Responsibility and ownership early on
- International working environment
- Flexible working hours
- Environment for continuous learning, including conferences and trainings

We are looking forward to your application documents, including your CV and the earliest possible starting date. Please send all relevant documents to Philipp Geyer (geyer@omicera.com) and feel free to reach out for further questions.

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