Machine Learning and Data Architect

Schweiz, Basel-Stadt, Basel

Job-Fakten
At Roche, over 90,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we’ve become one of the world’s leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity. The headquarters in Basel is one of Roche’s largest sites, over 8,000 people from approximately 80 countries work at Roche Basel. Favored by its geographic location in the heart of Europe, the Basel area is one of the most dynamic economic regions in Switzerland — a great place to live and work.

Our team in Pharma Research and Early Development (pRED) Informatics is part of Roche’s global Research & Early Development Organization. The mission of our team is the design, development and delivery of innovative integrated scientific informatics solutions and platforms focusing on data capture, analysis, and visualization of chemical, biological and biomedical data to support scientific decision making in all stages of the drug development processes and finally to deliver new innovative treatments to the patients.

We are shaping the digitalization of Pharma Research & Early Development (pRED) at Roche, and we are growing. For our vision to come true, we need innovative, dedicated people from a wide variety of backgrounds.

The Position
- You will be the glue between data scientists, data engineers, software engineers and research scientists to govern and scale ML
- You will help define the architecture and select appropriate platforms and technologies
- You will gather requirements from multiple stakeholders (research scientists, data scientists, data engineers, …) and map them to products that need to be implemented
- You will develop working prototypes to demonstrate the technical feasibility of ML projects and to establish best practices on data flow and management, and how the platforms will be designed and operated
- You will orchestrate the deployment and management of models in production environment including the integration of new tools into our existing landscape

Who you are
We are looking for a highly motivated individual with a Master and or PhD in Computer Science, Bioinformatics or a related field. If you have a strong interest in Pharma and Medicine and expertise in the desired skills listed below, we look forward to receiving your application. What else should be in your toolbox?
- ML Architecture and pipeline planning
- Background in infrastructure (compute accelerators, storage, network) and the know-how of when to use which across the ML pipeline
- Advanced knowledge in data management, i.e. databases, data warehouses, data curation, semantic data modelling and integration tools
- Data science and advanced analytics background, i.e. familiar with common techniques for analyzing data using advanced analytics tools such as Python or R, Knowledge of ML and DL frameworks (e.g. Tensorflow)
- Strong knowledge of software engineering and agile principles
- Strong knowledge of DevOps workflow and tools such as Git, containers, Kubernetes, Infrastructure as Code tools for continuous delivery of ML applications
- Ability to advocate and drive ML architecture
- Pharma or life science background
- Ability to collaborate with a variety of technical and nontechnical roles. In particular, connecting data scientists, data engineers, ML engineers, data analysts and research scientists
- Excellent oral and written communication skills in English

If you are proud of contributing and feel you have the dedication to teamwork and innovation that we are seeking, then Roche is the organization for you. Every role at Roche plays a part in making a difference to patients’ lives. If you want to work in a passionate team, make your mark & improve lives, apply now.

Roche embraces diversity and equal opportunity in a serious way. We are committed to building a team that represents a variety of backgrounds, perspectives, and skills. The more inclusive we are, the better our work will be. We are an equal opportunity employer and value diversity at our company. We do not discriminate on the basis of race, religion, color, national origin, gender, sexual orientation, age, marital status, veteran status, or disability status.

Who we are
At Roche, 80,000 people across 150 countries are pushing back the frontiers of healthcare. Working together, we’ve become one of the world’s leading research-focused healthcare groups. Our success is built on innovation, curiosity and diversity, and on seeing each other’s differences as an advantage. To innovate healthcare, Roche has ambitious plans to keep learning and growing - and is seeking people who have the same goals for themselves.

Roche strives to be an equal opportunity employer.

Online bewerben!