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Maurice Frank

Machine learning engineer

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SKILLS

ML eng w/ Python	PyTorch, TensorFlow, scikit-learn, Pandas, SciPy, OpenCV
DevOps engineering	skorch, ray, wandb, PyTorch Lightning, DASK, Hydra
Data visualization	pyplot, Dash (plotly), front-end, webdesign
GNU/Linux systems	System administration, BASH, Perl, Git, Slurm
Spoken/written languages	German native, English fluent (TOEFL 112/120), Dutch beginner level

TECHNICAL EXPERIENCE

Machine learning scientist 11/2020 — Present
Hummingbird Diagnostics Heidelberg

- Development of deep learning based approaches to cancer and disease detection from liquid biopsy (blood samples).
- Working with sequence embedding models and graph networks on microRNA biomarkers.
- Complete implementation of an interactive web-based data big-data analyze platform.
- Complete implementation of a large-scale model training platform.
- Python / PyTorch / sklearn / Biostatistics

Research intern 11/2019 — 06/2020
AMLab, University of Amsterdam Amsterdam

- Intern at Max Welling's Machine Learning Lab at the University of Amsterdam.

Machine learning engineer – Intern 06/2019 — 08/2019
BMW Group Munich

- Building statistical models to analyze engine part quality and live fleet monitoring.
- Building a production-ready data visualization app.
- Python / PySpark / Palantir Foundry / Dash / Agile development

Full-stack web developer 01/2018 — 12/2018
Bürgerwerke eG Heidelberg

- Ground-up development of a team communication and organization web portal in Ruby on Rails.
- Rails / Ruby / Software Engineering

EDUCATION

M.Sc. Artificial Intelligence 2018 — 2020
University of Amsterdam GPA 4/4, cum laude

- Specialization in topics: Theoretical machine learning, Computer Vision, Reinforcement Learning, NLP, Information theory

B.Sc. Applied Computer Science 2014 — 2017
University Heidelberg GPA 3.58/4

- Specialization on image processing and pattern recognition: Deep Learning, 3D Computer vision, medical image analysis, fairness in AI