

+31 6 38493722
Amsterdam, The Netherlands
maurice.frank@posteo.de

Maurice Frank

Machine learning engineer

morris-frank.com
github.com/morris-frank
linkedin.com/in/morris-frank

SKILLS

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

TECHNICAL EXPERIENCE

Contract-work <i>Morris-Frank</i>	12/2021 — Present <i>Amsterdam</i>
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- Project-based contracting for various companies (e.g. BioTech, AgTech)
- ML analysis tools
- Building interactive business data apps
- DASH / GIS / data-visualization

Machine learning scientist <i>Hummingbird Diagnostics</i>	11/2020 — Present <i>Heidelberg</i>
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- Machine learning research for RNA-Seq. Causal predictive tools from NGS and Nanopore data
- Working with sequence embedding models and graph networks
- In-house interactive web app for data, feature, and result analysis
- Set-up of MLOps infrastructure to enable to run code-free ML analysis across large set of datasets and objectives
- Python / PyTorch / sklearn / Biostatistics

Research intern <i>AMLab, University of Amsterdam</i>	11/2019 — 06/2020 <i>Amsterdam</i>
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- Intern at Max Welling's Machine Learning Lab at the University of Amsterdam.

Machine learning engineer – Intern <i>BMW Group</i>	06/2019 — 08/2019 <i>Munich</i>
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- 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 <i>Bürgerwerke eG</i>	01/2018 — 12/2018 <i>Heidelberg</i>
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- Ground-up development of a team communication and organization web portal in Ruby on Rails.
- Rails / Ruby / Software Engineering

EDUCATION

M.Sc. Artificial Intelligence <i>University of Amsterdam</i>	2018 — 2020 <i>GPA 4/4, cum laude</i>
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- Specialization in topics: Theoretical machine learning, Computer Vision, Reinforcement Learning, NLP, Information theory

B.Sc. Applied Computer Science <i>University Heidelberg</i>	2014 — 2017 <i>GPA 3.58/4</i>
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- Specialization on image processing and pattern recognition: Deep Learning, 3D Computer vision, medical image analysis, fairness in AI