



Me posing with Mt Everest in the background

JAN JANSEN

Machine Learning Engineer

As an ardent champion of machine learning, I am deeply committed to promoting the benefits of data-informed decision making and advocating for the significance of data. Concentrating on propelling achievement through insights derived from machine learning, I bring a wealth of experience in crafting strategies for data acquisition, analysis, and visualization, as well as fostering understanding of data and championing optimal practices. My fervor for leveraging machine learning to unearth fresh opportunities and optimize procedures has consistently resulted in triumphant outcomes and considerable enhancements for the organizations I've had the privilege to work with.

EXPERIENCE

PhD Candidate in Machine Learning for Medical Imaging University1

Jan 19 - NOW

- Proficient in using PyTorch, NumPy, scikit-learn, SciPy, and XGBoost for developing and evaluating models for medical imaging research.
- Conducted research to develop innovative diagnostic tools for predicting therapy response and survival in patients with head and neck carcinomas, as well as for diagnosing degenerative disc disease in the neck.
- Developed and contributed to popular medical data science tools such as Tool1 and Tool2. Developed tools like Tool3 for detecting degenerative disc disease in the neck, and Tool4, a widely-used Python library.
- Supervised MSc. students in their thesis projects and served as a teaching assistant for Advanced Data Analysis with Python.

Founder of Company1 Self-Employed

Feb 20 - Dec 22

- Awarded the RDNL Dutch Data Prize for «Redacted» for significant contributions to making «Redacted» data more Findable, Accessible, Interoperable, and Reusable.
- Design and maintenance of ETL and CI/CD pipelines, ensuring accurate and comprehensive data, as well as seamless integration and delivery for the platform.
- Developed models surpassing «Redacted»'s accuracy for vaccine rollout estimates and for estimating case counts using wastewater surveillance data.
- Developed the «Redacted» library, a transparent, open-source alternative to the government-released QR code app and library for the coronavirus passport.

Scientific Programmer University1

Aug 17 - Dec 18

- Contributed to «Redacted», designing a system similar to Kubernetes Batch.
- Leveraged data science skills to develop efficient Python ETL pipelines, applying machine learning pipelines for predictive modeling and data analysis automation.
- Managed large-scale computational tasks using 3500+ CPU cores, demonstrating proficiency in IaaS platforms and HPC clusters.
- Utilized Flask, SQLAlchemy, NumPy, and Pandas for data manipulation, analysis, and visualization, aiding in data-driven decision-making.
- Showcased expertise in handling and organizing medical imaging data using XNAT and led innovative medical imaging projects.
- Employed CI/CD practices for seamless integration and deployment, and utilized Salt Project for scalable infrastructure management.

Intern University1

Jan 17 - Jul 17

Software Engineer Company2

Jul 12 - Aug 16

- Orchestrated migration from a DIY server setup to cloud infrastructure, boosting scalability, reliability, and cost-efficiency.
- Developed on the «Redacted» platform and the advice module, creating automated mortgage advice based on user profiles and predictive algorithms.
- Enabled further integrations with the «Redacted» network. The software processed 50% of «Redacted» requests in the Netherlands during its peak.
- Implemented the SEPA transaction code for secure financial transactions.
- Championed the adoption of Agile methodologies, improving project delivery, client satisfaction, and fostering team collaboration.
- Pioneered the migration from Subversion to Git for source code repository, enhancing version control and code collaboration.

PHILOSOPHY

“Persevere through challenges”

SKILLS

Python	7+ yrs
Pandas	7+ yrs
Linux	12+ yrs
GIT	12+ yrs
scikit-learn	5+ yrs
pytorch	5+ yrs
Flask	2+ yrs
FastAPI	2+ yrs

EDUCATION

PhD Machine Learning 2019 - NOW University1

Thesis title: "Fancy Title Here"

BSc Informatics 2009 - 2017 University2

Thesis title: "Fancy Title Here"

CONTACT

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PUBLICATIONS

FamName, N., SecFamName, S., & ThirdFamName, T. (2023). *pub1title*. Retrieved from <https://doi.org/12.3456/asd>
FamName, N., SecFamName, S., & ThirdFamName, T. (in preparation). *pub2title*.