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SUMMARY

DevOps and Data Engineer at Rabobank with an MSc in Computer Science (Data Science & AI). Build and operate the data platform foundation supporting analytics and machine learning workloads across the bank — CI/CD, infrastructure-as-code, reliable data pipelines, and observability. Bridge platform engineering and data engineering to make complex systems reproducible, scalable, and trustworthy. Strong foundation in Python, SQL, and production ML workflows, with hands-on research experience in modern AI architectures.

PROFESSIONAL EXPERIENCE

Rabobank — DevOps Engineer / Data Engineer Oct 2025 – Present
Data Management & Data Products, W&R Markets and Treasury Tribe Netherlands

- Build and operate cloud and DevOps infrastructure on Microsoft Azure and Databricks, supporting analytics and ML workloads across the bank — CI/CD, infrastructure-as-code, and monitoring.
- Design and maintain reliable, reproducible data pipelines on Databricks for the Reporting & Value Chain Services domain, with a focus on observability, lineage, and recovery.
- Automate deployments, environment provisioning, and operational workflows on Azure so data engineers and analysts can ship faster with fewer incidents.
- Lead ML engineering on an approved departmental innovation pilot to automate operational tasks using machine learning, owning model design, data integration, and productionisation end-to-end.
- Own non-functional concerns — reliability, security, cost, and disaster recovery — through guardrails and automation rather than manual intervention.
- Act as a technical bridge between platform teams, data engineering, and stakeholders, translating business needs into robust technical solutions.

SELECTED PROJECTS

MSc Dissertation Research — LIACS, Universiteit Leiden Feb 2025 – Jun 2025
Supervised by T. Verhoef | Dissertation grade: 8/10

- Investigated cross-modal sound symbolism in Vision-Language Models (LLaMA 3.2-11B-Vision-Instruct, Molmo 7B-D-0924) via probabilistic image-text alignment and phonetic congruence analysis.
- Integrated SAM2 segmentation for visual grounding combined with phonetic prompt interpretation; quantified model behaviour statistically.
- Revealed a 61% bias toward pairing curved images with sonorant pseudowords; established a reproducible methodology for cross-modal AI experiments.

Data Science & ML Portfolio Ongoing
Competitions, research, real-world applications

- Built ensemble models (XGBoost, CatBoost, Random Forest) with stacking and out-of-fold validation across regression and classification challenges.
- Developed GPU-accelerated deep neural networks (TensorFlow/Keras) for binary classification; applied SHAP for interpretability.
- Engineered robust ML pipelines with Optuna tuning, SMOTE, scaling, encoding, and CV frameworks tracking RMSE, ROC-AUC, precision, and recall.

TECHNICAL SKILLS

Languages: Python, SQL, Scala, C, C++, Bash, JavaScript, HTML/CSS

DevOps & Cloud: Microsoft Azure, Databricks, CI/CD pipelines, Infrastructure-as-Code, Git, Linux, Containerisation, Monitoring & Observability, Reproducible environments

Data Engineering: Async Python, ETL/ELT pipelines, MySQL, Pandas, NumPy, Reproducible ML pipelines, Data quality & lineage

ML & Deep Learning: XGBoost, CatBoost, Random Forest, SVM, k-NN, TensorFlow, Keras, PyTorch, CNNs, RNNs, GANs, Ensemble Methods

AI & NLP: HuggingFace Transformers, Vision-Language Models (LLaMA, Molmo), SAM2, OpenAI API, spaCy, Multimodal AI

Data Tooling: Scikit-Learn, SciPy, Matplotlib, Seaborn, SHAP, SMOTE, Optuna, Librosa, NetworkX, Jupyter

Spoken Languages: Dutch (Native), English (C1 / Bilingual), German (Basic), French (Basic)

EDUCATION

Universiteit Leiden — MSc Computer Science (Data Science & AI) Feb 2024 – Jul 2025

Leiden, Netherlands | Dissertation grade: 8/10

- Dissertation: multimodal cognitive ability in Vision-Language Models (LLaMA 3.2-Vision, Molmo, SAM2).

Vrije Universiteit Amsterdam — BSc Computer Science (Minor: Data Science) Sep 2020 – Dec 2023

Amsterdam, Netherlands | Dissertation grade: 7/10

- Dissertation: comparative analysis of three popular machine learning techniques.

CERTIFICATIONS

- Databricks — Generative AI Fundamentals, Databricks Fundamentals (Mar 2026)
- Cambridge English — C1 Advanced (May 2018)