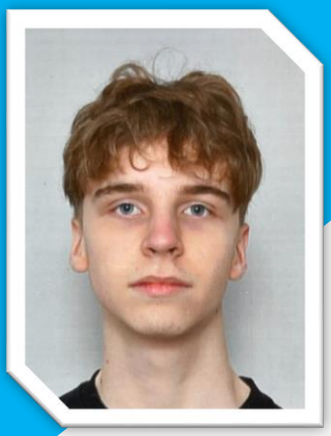

Robin (R.P.M.) Kras

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Netherlands

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Socials
robkras.com
GitHub: rbkrs
Kaggle: robkraseu

Languages
Dutch – Native
English – Bilingual
German – Basic
French – Basic

Certifications
English C1 Advanced
May 2018
Issued by Cambridge Assessment International Education

Hobbies
Swimming
Fitness
Cooking

EDUCATION

2024-2025

MSc Computer Science, Rijksuniversiteit Leiden

- Specialization in Data Science & Artificial Intelligence
- Dissertation on the exploration of multimodal cognitive ability within modern VLMs (8/10).

2020-2023

BSc Computer Science, Vrije Universiteit Amsterdam

- Minor in Data Science
- Dissertation on a comparative analysis of 3 popular ML techniques (7/10).

PROFESSIONAL EXPERIENCE

2025

Zilveren Kruis, Werkstudent Data Scientist

- Designed and developed an interactive dashboard leveraging the OpenAI API, empowering clients to independently manage and authorize their hearing-aid insurance requests, reducing manual workload for service teams.
- Improved efficiency of contract data processing by implementing asynchronous programming in Python, resulting in a 1800% reduction in load times.

PROJECTS – Data Science & ML Portfolio

Regularly updated at robkras.com | Focused on real-world problems, competitions, and research

Machine Learning & Advanced Analytics

- Built ensemble models (XGBoost, CatBoost, RF) with stacking & out-of-fold validation
- Developed deep neural networks (TensorFlow/Keras, GPU-accelerated) for binary classification
- Performed hyperparameter tuning (Optuna, Grid/RandomizedSearchCV) and meta-learning with SVM, KNN, Ridge

Data Engineering & Feature Processing

- Conducted in-depth EDA on 10+ datasets using Pandas, NumPy, Matplotlib, Seaborn
- Engineered interaction features (e.g. itertools.combinations) and applied SMOTE, scaling, and encoding techniques
- Handled missing data and imbalanced classes with robust preprocessing strategies

Model Evaluation & Interpretability

- Designed CV frameworks (KFold, out-of-fold) with metric tracking: RMSE, ROC-AUC, precision/recall
- Used SHAP for interpretability and model debugging
- Applied ensemble averaging and rank-based blending to boost performance

Technical Practices

- Modularized code with reusable functions and reproducible pipelines
- Leveraged GPU training (XGBoost gpu_hist, TensorFlow) and followed version control best practices
- Built pipelines for real-world ML: handling imbalance, missing values, and categorical data

Domains

- Regression (house prices, podcast listening time, agriculture) and classification challenges

SKILLS

Programming: Python, C, C++, Assembly, SCALA
Technical skills: Keras, NumPy, Pandas, TensorFlow, PyTorch, (My)SQL, data manipulation, data visualization, machine learning, data science, reinforcement learning, GIT, web scraping, data mining, NLP, Hugging Face transformers, SciPy, Scikit-Learn, Librosa, CNNs/RNNs/GANs, NetworkX, spaCy
Personal skills: love of learning, time management, communication, adaptability

Update July 1st, 2025