

Mattis Megevand

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EXPERIENCE

Data Scientist

Oct. 2024 – Present

Odoo

Louvain-la-Neuve, Belgium

- Led the migration of data analysis and reporting workflows from Tableau to Odoo, streamlining processes and reducing report generation time
- Contributed to the Odoo Group budget planning by performing sales trend analysis

Software Engineer

Oct. 2023 – Oct. 2024

Odoo

Ramillies, Belgium

- Resolved critical software bugs across various Odoo modules, improving system stability and user experience
- Developed proofs of concept for Odoo, including RAG for chatbot and document similarity for support ticketing

Research Intern

Feb. 2023 – Aug. 2023

Thales

Gennevilliers, France

- Developed and patented a novel neural network compression method combining quantization, pruning and low-rank approximation
- Achieved leading compression rates for LeNet-5 on MNIST, demonstrating superior performance compared to existing methods
- Patent: *Procédé et dispositif d'optimisation d'au moins un réseau de neurones artificiels et programme d'ordinateur associé (FR3152903)*

Research Intern

Jan. 2022 – Jun. 2022

Grenoble Informatics Laboratory

Grenoble, France

- Engineered an audio data augmentation tool enhancing speech recognition accuracy by 2%

EDUCATION

ENSIMAG

Grenoble, France

Master of Science in Informatics at Grenoble – High honors

2021 – 2023

Grenoble Alpes University

Grenoble, France

Bachelor of Science in Computer Science – Honors

2018 – 2021

PROJECTS

sqlgbm

- SQL-based inference for Gradient Boosting Models
- Facilitates model deployment directly within the database, removing the need for external dependencies

invertornot.com

- Created a dataset from scratch using web-scraping
- Finetuned and deployed EfficientNet to optimize image inversion for dark mode
- Built and scaled the API to process over 40,000 images daily

AI/ML Exercises

- Implemented GAN, VAE, SRGAN...
- Completed algorithm challenges from Advent of Code, Cryptopals...

Open Source

- Contributed to tinygrad by adding learning rate schedulers (PR #755)

TECHNICAL SKILLS

Languages: Python, SQL, JavaScript

Developer Tools: Git, Docker, Vim

Libraries: Polars, pandas, NumPy, PyTorch, scikit-learn