Mattis Megevand

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Experience

Odoo   Oct. 2023 – Present
Software Engineer   *Ramillies, Belgium*
– Investigated and resolved software bugs across the Odoo codebase.
– Gained experience in troubleshooting large-scale software systems.

Thales   Feb. – Aug. 2023
Research Intern   *Gennevilliers, France*
– Developed a neural network compression framework.
– Achieved a 0.01% increase in accuracy using just 0.78% of the BOPS for LeNet on MNIST.
– Formulated a novel compression method; patent pending.

Grenoble Informatics Laboratory   Jan. – Jun. 2022
Research Intern   *Grenoble, France*
– Delved into data augmentation techniques for speech recognition.
– Realized a significant accuracy improvement in speech recognition through data augmentation.
– Implemented a tool for augmenting audio files using diverse methods.

Education

ENSIMAG   2021 – 2023
Master of Science in Informatics at Grenoble   *Grenoble, France*
– Master taught entirely in English offered by ENSIMAG and Grenoble Alpes University.
– Specialization in *"Data Science and Artificial Intelligence"*.
– Graduated with high honours.

Grenoble Alpes University   2018 – 2021
Bachelor of Science in Computer Science   *Grenoble, France*
Graduated with honors.

Side Projects

invertornot.com API to determine if an image should be inverted for optimal dark-mode rendering using AI
– Created and trained a model on a custom dataset.
– Deployed the API, currently processing more than 25k images daily.

recommusic
– Scraped and embedded Pitchfork album review.
– Made a web-app to perform vector search and similarity on albums.

Various exercises
– **AI/ML** Implementation of various papers such as GAN, SRGAN, AE, VAE, VQ-VAE, Style transfer...
– **Programming/math-oriented** such as *Advent of Code, Project Euler, Cryptopals*...

Open Source
– Implemented LR schedulers for `tinygrad` an alternative deep learning framework to PyTorch.

Language
– **French** Native
– **English** Fluent

Technical skills
– Python, JavaScript, OCaml
– PyTorch, ONNX, NumPy, pandas
– FastAPI, Redis, nginx
– React, Astro