



Eileen Jovenin

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Profile

AI Engineer specialized in computer vision, deep learning, and image-based optimization. Product-oriented mindset with a strong focus on measurable performance, robust pipelines, and collaboration with domain experts.

Professional Experience

University of Liège – STAR Institute (PSILab)

Final-Year Internship – AI Engineer

Liège, Belgium

Feb. 2025 – Jul. 2025

- Designed and trained deep learning models using **Python and PyTorch** for high-resolution image analysis and optimization.
- Built end-to-end pipelines for data preprocessing, training, evaluation, and visualization on GPU.
- Improved image quality metrics by **+35%** through model and loss function optimization.
- Worked with noisy, real-world scientific data and validated results with domain experts.
- Produced clear documentation and visual reports to support model validation and decision-making.

3ma Group

Engineering Internship – Software Development

Rouffach, France

Sept. 2023 – Feb. 2024

- Designed and developed an automated **functional testing platform** using Python and SQL.
- Reduced manual testing time by **45%**; solution adopted by the IT department.
- Collaborated with non-technical stakeholders to formalize requirements and validation scenarios.

Education

University of Technology of Belfort-Montbéliard (UTBM)

Master's Degree in Computer Engineering — Specialization in AI and AR/VR

Belfort, France

2020 – 2025

- **Multi-Agent Patrolling System** — Computer vision and multi-agent surveillance optimized using Ant Colony Optimization and K-means.
- **LIFE V-AIR Project** — AR/VR serious game for environmental awareness.

Scientific Baccalaureate (Mathematics specialization), Highest Honors

2020

Technical Skills

Programming Languages: Python, C/C++, C#, Java, SQL, HTML/CSS/JavaScript

Machine Learning & AI: Deep Learning, Computer Vision, Reinforcement Learning, Optimization

Computer Vision & Data: Image classification, segmentation (experience), data cleaning, model evaluation

Frameworks & Libraries: PyTorch, familiarity with TensorFlow, Scikit-learn, NumPy, Pandas, Matplotlib, HCIPy

Tools: Git, Jupyter, Linux, Visual Studio, IntelliJ, Unity, Blender

Languages: French (native), English (C1), German (B1), Chinese (A2–B1)

Soft Skills: Clear technical communication, teamwork, autonomy, rigor, curiosity, fast learner.

Certifications

Learning AI Through Visualization — Columbia University (2025)

Getting Started with Deep Learning — NVIDIA (2022)

Fundamentals of Accelerated Computing with CUDA Python — NVIDIA (2022)

Goethe-Zertifikat B1 — Goethe-Institut (2024)

HSK2 — 186/200 — Center for Language Education and Cooperation (2023)

Linguaskill Business B2 — 179/180 — Cambridge English (2021)

Interests

Scuba diving (FFESSM Level 1), astronomy, travel, art.