Youri **Halmaert**

Contact Details

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✉ LinkedIn: youri.halmaert ◇ [Link]

○ GitHub: Youri-Halmaert ◇ [Link]

Languages

French (native)
English (C1 – TOEIC 935)

Skills

- Python, C, Matlab, SQL
- Pandas, Numpy, Matlotlib, Scikit-learn, TensorFlow, OpenCV, Pytorch, Flask
- Git, Bash, Docker, VS Code, Google Colab
- Azure, GCP, Raspberry Pi
- Analytical Thinking, Teamwork, Initiative, Adaptability, Perseverance, Discipline
- Machine Learning, Algorithmic Machine Learning, Advanced Statistical Inference, Optimization, Deep Learning, Quantum Computing, Database Management System, Distributed Systems, Cloud Computing

Interests

Judo: (13 years – Black Belt)

Chess: 1900 Elo rating ◇ [Link]

Track & Field (Decathlon):
Intensive training
View official results (FFA) ◇ [Link]

Youri Halmaert – Computer Engineering Student @ EURECOM
Seeking a 3 to 6-month Data Science Internship (Sep. 2025)

Profile Summary

I am a fourth-year Computer Engineering student at EURECOM, currently on a gap year and specializing in Data Science. Passionate about emerging technologies and applied mathematics, I am eager to contribute to innovative projects. I am seeking a Fall 2025 internship in machine learning, optimization, or deep learning. Studying in an international English-speaking environment has strengthened my adaptability and communication skills, and I am keen to gain further experience abroad or in a global setting.

Education

MSc in Computer Engineering – Data Science
EURECOM, Institut Mines-Télécom ◇ [Link]   **2023–2027**
Taught entirely in English, with a strong focus on advanced topics in data science and artificial intelligence.

Selective Undergraduate Preparatory Program (Engineering, Mathematics, Statistics, Computer Science, Physics, Chemistry)
Lycée Lakanal, Sceaux ◇ [Link]   **2021–2023**

Academic Projects

Sentiment Analysis with LSTM ◇ [Repository]   **2025**
◇ Built an end-to-end NLP pipeline to classify 14k airline tweets using LSTM (Keras). Achieved high accuracy through regularization and early stopping. Focused on handling noisy real-world text data.

Anomalous Sound Detection ◇ [Repository]   **2025**
◇ Trained convolutional autoencoders on log-mel spectrograms to detect anomalies in DCASE 2020 machine sound data. Achieved AUC scores from 0.65 to 0.89 across machine types using reconstruction error.

Aerial Imagery – Cactus Identifier ◇ [Repository]   **2025**
◇ Designed a CNN (Keras) to classify drone images and detect cactus presence. Used data augmentation and tuning to exceed 90% accuracy on validation sets.

Clustering Evaluation Toolkit ◇ [PCA]   **2024**   ◇ [Metrics]   **2024**
◇ Combined PCA + KMeans for exploratory clustering with 2D/3D visualizations. Developed tools for evaluating classifiers on imbalanced data: ROC, PR curves, F1/AUC analysis by context.

Experience

Intern – National Frequency Agency (ANFR)   **Summer 2024**
◇ Contributed to radio compliance for the Paris 2024 Olympics by testing over 7,000 RF devices. Supported real-time spectrum monitoring and field inspections. Helped new staff onboard. Worked in a multilingual, high-pressure team.