

Eldis YMERAJ

COMPUTER VISION · DEEP LEARNING · EXPLAINABLE AI

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LinkedIn

GitHub Portfolio

France

Profile

Junior Artificial Intelligence Engineer with a Master's degree in Artificial Intelligence and a strong interest in Computer Vision, Natural Language Processing and Data Science. Currently completing an internship at Airbus, where I work on the explainability of vision models for visual landing systems. Seeking a **permanent or fixed-term position** to contribute to practical AI projects and develop robust, reliable and interpretable systems.

Skills

Programming Languages

Python, Java, C, C++, SQL, JavaScript

Machine Learning

Scikit-learn, SVM, PCA, clustering, GMM, boosting, optimization

Deep Learning

PyTorch, TensorFlow, Keras, CNN, transfer learning, fine-tuning

Computer Vision

OpenCV, YOLO, ByteTrack, image processing, video tracking

XAI

Xplique, CRAFT, concept-based methods, attribution methods

NLP

Transformers, CamemBERT, BERT, Hugging Face

Data & Cloud

Pandas, NumPy, MongoDB, PostgreSQL, SQLite, AWS EC2, Amazon S3

MLOps / Tools

Git, GitHub, Docker, Linux, Jupyter, Google Colab, LaTeX

Languages

Albanian

Native language

French

C2 – Fluent

English

C1 – Professional proficiency

Interests

Activities

Football, basketball, travel, video games

Education

University of Caen Normandy

Caen, France

MASTER'S DEGREE IN ARTIFICIAL INTELLIGENCE

09/2024 – 09/2026

- Supervised and unsupervised learning, Deep Learning, NLP, computer vision, data mining, ETL and SQL/NoSQL databases.

University of Clermont Auvergne – ISIMA

Clermont-Ferrand, France

BACHELOR'S DEGREE IN COMPUTER SCIENCE

09/2021 – 05/2024

- DBMS, artificial intelligence, applied mathematics, linear programming, advanced algorithms, probability, statistics and operations research.

Professional Experience

Airbus SAS

Toulouse, France

ARTIFICIAL INTELLIGENCE / EXPLAINABLE AI INTERN

03/2026 – 09/2026

- Contributed to the RELAI-VLS project on the explainability of runway detection models for visual landing systems.
- Adapted CRAFT, a concept-based explainability method, to a YOLOv8 Pose model to identify and visualize learned concepts.
- Evaluated the fidelity and robustness of explanations across model layers, datasets and experimental parameters.

PYTHON, PYTORCH, YOLOV8POSE, YOLONASPOSE, XPLIQUE, CRAFT, NUMPY, PANDAS, MATPLOTLIB, AWS EC2, AMAZON S3, GIT

Responsibio

Caen, France

DATA SCIENCE INTERN

06/2025 – 08/2025

- Developed an automatic classification system for mouse and rat vocalizations used in animal biomonitoring.
- Designed an audio processing pipeline combining spectrograms, feature extraction and data preparation.
- Trained and evaluated PCA- and SVM-based classification models, achieving approximately 80% accuracy.

PYTHON, SCIKIT-LEARN, PYTORCH, NUMPY, PANDAS, PCA, SVM

Projects

Automatic Annotation of Clinical Narratives

09/2025 – 03/2026

- Developed an NLP pipeline to automatically annotate patients' autobiographical narratives at token level.
- Prepared the corpus, applied BIO annotation and fine-tuned CamemBERT to distinguish episodic and semantic details.

PYTHON, PYTORCH, TRANSFORMERS, CAMEMBERT, PANDAS

Handball Video Tracking

09/2024 – 12/2024

- Created and annotated datasets for players, goalkeepers, referees, the ball and court keypoints, then trained specialized YOLOv8 models.
- Developed a tracking pipeline combining ByteTrack for players, filtering and interpolation for the ball, and homography-based projection onto a 2D court.

PYTHON, YOLOV8, OPENCV, BYTETRACK

Interactive Sales Data Visualization

02/2025 – 05/2025

- Developed an interactive web application to explore sales data using a multi-container architecture.
- Implemented a GraphQL API connected to MongoDB and a dynamic data visualization interface with D3.js.

DOCKER, NODE.JS, GRAPHQL, MONGODB, D3.JS, JAVASCRIPT