

Valentin WOEHREL

MACHINE LEARNING | DEEP LEARNING | COMPUTER VISION ENGINEERING INTERNSHIP

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SUMMARY

Aspiring Machine Learning Engineer with a solid foundation in Artificial Intelligence, Computer Vision, and software development. Currently pursuing a dual Master's degree in Computer Science at Epitech and Artificial Intelligence at the University of Kent, with a focus on applied machine learning and deep learning systems. Passionate about leveraging data to solve real-world problems and eager to apply both technical and analytical skills in a dynamic, hands-on internship environment.

EXPERIENCE

UNIVR STUDIO

Lyon, France

FullStack Developer

February 2024 – June 2024

- Developed and maintained new features across multiple web applications using Next.js, and Tailwind CSS, enhancing user experience and responsiveness.
- Expanded API capabilities and optimized backend processes in Laravel, while managing MySQL databases to enhance performance, data integrity, and retrieval speed.

FREELANCE - EDDO EVENTS

Lyon, France

FrontEnd Developer

March 2023 – September 2023

- Advised clients on technical choices to align development with project goals.
- Redesigned the frontend using Next.js, Tailwind CSS, and Algolia to improve UI responsiveness and search performance and fixed Google Maps API issues, enhancing stability.

AKANEMA

Lyon, France

FullStack Developer

June 2022 – December 2022

- Developed a web-based intranet application from scratch, following a detailed project brief to meet specific client requirements and internal workflow needs using React.js, Tailwind CSS, Node.js and Directus.
- Delivered a responsive UI, designed and implemented a functional and secure backend tailored to client workflow needs.

PROJECTS

Sport Analysis

Thesis Project

- Develop a video analysis system to extract player statistics using YOLO, DeepSORT and OpenCV.
- Build an application for real-time access to match data, statistics, and visualizations.
- Engineer a data pipeline for key metrics (distance, speed, heatmaps) and real-time insights.

PawCare

Behavioral Analysis & Pet Care Application

- Developed a fullstack mobile app with React Native, NestJS, and Supabase, deployed on Azure.
- Implemented an AI-based emotion detection system for pets using PyTorch, OpenCV, and a RAG model.
- Led beta testing with real users to validate UX, stability, and AI accuracy (85%+), driving iterative improvements.

Kaggle

Machine Learning Enthusiast

- Actively participate in Kaggle competitions, applying advanced machine learning techniques to real-world problems.
- Develop and share insightful Jupyter Notebooks that break down complex solutions, providing clear explanations and best practices.

EDUCATION

Epitech

Master's degree

Lyon, France

2024-2026

University of Kent

MSc in Artificial Intelligence (Dual Degree Program)

Canterbury, United-Kingdom

2024-2026

Epitech

Bachelor's degree

Lyon, France

2021-2024

SKILLS

Programming Language: Python, C, C++, SQL, Bash, Shell Scripting

Machine Learning: Supervised & Unsupervised Learning, Model Fine-Tuning, Hyperparameter Tuning, Computer Vision, Large Language Model, Deep Learning

Libraries and Frameworks: TensorFlow, Scikit-Learn, Numpy, Pandas, Matplotlib, Seaborn, OpenCV, Pytorch

Tools: Docker, Git, GitHub Actions, AWS (S3, EC2), Google Colab