



Pierre LAVIELLE

AI engineering student

Computer engineering student specializing in the field of artificial intelligence, machine learning & big data. Interested in creating effective and secure AI models to solve real-world problems.

Formations

- **Computer engineering diploma - 5 years**
09/2021 - 05/2026 [EPITA](#) France
2 years of integrated preparation then 3 years of engineering cycle
- **Semester abroad - 5 months**
01/2023 - 05/2023 [Ahlia University](#) Royaume de Bahreïn
- **Baccalaureate: Physics-Chemistry and Math specialties**
09/2018 - 07/2021 [Lycée Saint Joseph – La Salle](#) Toulouse, France
French Baccalaureate with honors

Social networks

[pierrelavielle](#)
 [pierre-lavielle](#)

Languages

French mother tongue: C2

English Fluent : C1

Interests

Travel : Italy, Prague, Spain and Kingdom of Bahrain

Hobbies : Chess, Reading and Bodybuilding

Soft skills

Critical thinking

Scientific communication

AI project management

Teamwork

Work experience

- **Cybersecurity Analyst - 5 months**
09/2024 - 02/2025 [Cybelangel](#) Paris, France
2nd year engineering cycle internship,
 - Creation of automatic reports for corporate clients in Looker and BigQuery with analysis of attacks in order to improve customer relations
 - Development of advanced Excel tools with automation of sending take-down emails, to accelerate the removal of malicious content targeting customers.
- **Sales - 2 month**
07/2023 - 08/2023 [Tridome](#) Narbonne, France
Salesperson in a DIY store with personalized support for customers on the shelf to meet their needs.
 - Development of skills in active listening, sales advice, and pressure management in a dynamic environment.
 - Inventory management: monitoring of shortages, restocking and verification of arrivals.
 - Proactive resolution of customer issues, helping to build customer loyalty.

Projects

OCR Sudoku : Optical character recognition and automatic sudoku solving

Big data analytics : Classification and prediction of car accidents based on different attributes

MLOps - Classification of handwritten images : Design and deployment of a complete MLOps pipeline with automation of key stages allowing the monitoring and traceability of experiments and a monitoring strategy

MLSecu - Anomaly Detection : detection of abnormal behaviors in an industrial system using model comparison and a hybrid approach combining supervised and unsupervised methods.

Music generator : Creating an AI capable of producing or continuing a melody.

Match recognition and analysis : AI with football player recognition capable of generating real-time match statistics.

Technical skills

xAI : SHAP, LIME, by-design

Graphes & GNN : Neo4j, PyG, GCN, GraphSAGE, GIN

Generative IA : LLMs, diffusion models, RAG

Deep Learning : CNN, RNN, Transformers

Python : Scikit-learn, PyTorch, TensorFlow

ML supervised/unsupervised

Conformal prediction

