

Louis Delignac

Data Scientist | AI Developer | Python - ML

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Data Scientist specializing in Machine Learning and AI development, with solid skills in modeling and data processing. I am available as soon as possible for a CDI or CDD position.

EDUCATION

Université de Bordeaux

2020-2025

Master's Degree: CMI ISI - Master of Statistical and Stochastic Modeling

Bachelor's Degree: CMI ISI - Coursus Master en Ingénierie, Engineering in Statistics and Computer Science

EXPERIENCE

AI R&D Consultant | Internship STMS

March 2025 – August 2025

- Designed an internal conversational agent based on an LLM via the Anthropic API.
- Developed tools, integrated a RAG architecture, and generated bilingual embeddings with the LaJavaness model, using vector and metadata storage in ParadeDB.
- Designed an automated Python data pipeline (extraction, indexing, updating of internal documents).
- Integration via Vercel AI SDK (TypeScript), Docker, and GitLab CI/CD on an on-premise infrastructure.
- Contributed to the AI roadmap and drafted the company's AI charter (ESN, SAP integrator).

Computer Science Tutor | Université de Bordeaux

September 2023 – June 2024

- Organized and led tutoring sessions in Computer Science for Bachelor's students (Algorithms, Python).

President | Mayday Student Music Festival

August 2023 – August 2024

(15,000 festival-goers, 22 organizing members, €150,000 budget)

- Team leadership, planning, and budget management.
- Communication with institutional and logistical partners.

President | Association Label[i]

September 2021 – October 2022

- Directed the student association for the Computer Science department at the University of Bordeaux (100 members).
- Organized the Nuit de l'Info (Hackathon) on campus (+300 participants) in partnership with the Computer Science Department.

PROJECTS

Product Repurchase Prediction - Carrefour AI Challenge

~70h

- Inter-university competition with the Carrefour group.
- Repurchase predictive model based on LightGBM, evaluated using the Hit Rate@10 metric.

Classification of Wind Turbine Images using Neural Networks

~50h

- Wind turbine detection using PyTorch.
- Image preprocessing, training, and optimization of CNN/ResNet models.

Interactive Dashboard on Electricity Production in France

~70h

- Dash application for real-time monitoring of electricity production/consumption.
- Python pipeline connected to the éco2mix API, MongoDB storage, interactive charts.

Aerial Image Segmentation for Solar Panel Detection

~60h

- Fine-tuning and from scratch implementation of U-Net models (PyTorch, TensorFlow).
- Evaluation using several metrics and visualization with Matplotlib and OpenCV.

SKILLS

Languages : Python (Pandas, Scikit-Learn, Pytorch, TensorFlow, Matplotlib, Plotly), R, SQL, Typescript (React), Java.

Data Science : Data Manipulation, Machine Learning, Deep Learning, AI Development, RAG, API Management.

Tools : Git, Docker, Jupyter, Linux, SGDB (PostgreSQL, MongoDB, Elasticsearch).

Soft Skills : Project Management, Teamwork, Team Coordination, Communication and Vulgarization, Autonomous.

ADDITIONAL INFORMATION

Certifications: *Deep Learning Specialization* by Andrew Ng, *Deep Learning* by NVIDIA DLI

Languages: French (Native), English (B2), Spanish (B1)

Interests: Chess (Club Player and FIDE Arbiter), Volunteering & Event Management, History