

Pierre Aumjaud

Data Analyst

-  Narbonne, France
-  +33 6 66 43 21 50
-  <https://pierreaumjaud.com/>
-  pierre.aumjaud@gmail.com
-  French







About Me

Engineer turned **Data Analyst** with 8+ years of Python experience applied to **machine learning** and **computational problem-solving**. Passionate about leveraging data to drive decisions, with expertise in **SQL** and **statistical analysis**. Combines strong technical skills in **Python** (Pandas, Scikit-learn, PyTorch) with the ability to translate complex results into actionable insights.

Skills

- » **Python (8 years)**
Scikit-learn • Pandas • Matplotlib • Pytorch • Jupyter
- » **SQL**
MySQL • PostgreSQL
- » **DevOps**
Git • Docker • Pytest • Travis CI • Anaconda
- » **Web Development**
HTML • CSS • Wordpress • Jekyll
- » **Other**
Linux/Bash • Arduino • Markdown • \LaTeX

Languages

-  French – C2 
-  English – C1 
-  Spanish – C1 

Socials

-  [linkedin.com/in/pierreaumjaud](https://www.linkedin.com/in/pierreaumjaud)
-  github.com/PierreExeter
-  pierreaumjaud.com

Projects Portfolio

- Customer Data Cleaning with SQL** [Link to Project](#)
Skills : MySQL, data cleaning, duplicates removal, missing values imputation, format standardisation
- Reinforcement Learning for Robotic Arm Control** [Link to Project](#)
Skills : Python, Reinforcement learning, Robotics, Docker, Pytorch
- Classifier Visualisation** [Link to Project](#)
Skills : Python, Scikit-learn, Matplotlib, Supervised learning
- Boston House Prices Prediction** [Link to Project](#)
Skills : Python, Scikit-learn, Matplotlib, Regression
- Multi-Objective Optimization in Python** [Link to Project](#)
Skills : Python, Optimisation, PyMoo

Work Experience

- 2021 – 2025 **Volunteer Work**
20 volunteer experiences in 8 countries: work in NGOs, fundraising for the construction of a school, teaching English, creating websites, permaculture, and natural building.
- 2017 – 2021 **Marie Curie Research Fellow** [University College Dublin, Ireland](#)
Anomaly detection and condition monitoring of a manufacturing process using time series and machine learning. Robotic trajectory planning using a reinforcement learning approach.
Focus: *machine learning, reinforcement learning, time series, anomaly detection, robotics.*
- 2016 – 2017 **Postdoctoral Research Fellow** [University College Dublin, Ireland](#)
Numerical modelling and evolutionary and topology optimisation of composite materials.
Focus: *evolutionary optimisation, topology optimisation, finite element analysis, composite materials.*
- 2012 – 2015 **Teaching Assistant** [University of Exeter, UK](#)
Solid mechanics, computational engineering, Computer-Aided Design.
- 2011 – 2011 **Project Management Intern** [Airbus, France](#)
Harmonisation of CatiaV5 configuration settings for the A350 programme

Education

Academia

- 2012 – 2016 **PhD Mechanical Engineering** [University of Exeter, UK](#)
Numerical modelling and computational optimisation of vibrating aerospace structures.
Focus: *evolutionary optimisation, exploratory data analysis, data visualisation, Python, numerical analysis.*
- 2009 – 2012 **MSc Mechanical Engineering** [SUPMICROTECH-ENSMM, France](#)
National graduate engineering school in mechanics and microtechnologies.
Modules: *mechanical engineering, computer science, engineering mathematics, electronics.*
- 2007 – 2009 **BSc Engineering – ‘classes préparatoires’** [Lycée Arago, France](#)
Modules: *mathematics, physics, chemistry, engineering*

Courses & Certifications

- 2025 **MySQL for Data Analytics** [Analyst Builder](#)
- 2025 **Build and share a containerized app** [Docker](#)
- 2024 **Reinforcement learning specialisation** [Coursera](#)
- 2021 **Machine learning specialisation** [Coursera](#)
- 2021 **Introduction to Pytorch** [Pytorch](#)
- 2020 **Introduction to Data Analysis** [Udacity](#)