

Pierre Aumjaud

Data Analyst

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-  French Citizen




About Me

Data-focused professional transitioning from an academic career after a four-year period of dedicated skills development. Proficient in **MLOps**, **data analysis**, and **data science**, with a proven ability to **build and deploy machine learning models**.




Skills

- » **Python**
Scikit-learn • Pytorch • NumPy • Pandas • Jupyter
- » **Databases**
SQL • MySQL
- » **Data Visualisation**
Tableau • Matplotlib • Seaborn • Grafana • Prometheus
- » **DevOps**
Git • Docker • Azure • Unit tests (Pytest) • Github Actions • Anaconda • VS Code
- » **Web Development**
HTML • CSS • Streamlit • Flask • Wordpress • Jekyll
- » **Other**
Linux/Bash • Agile (Jira) • Arduino • Markdown • \LaTeX • ROS

Languages

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

Socials

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

Work Experience

- 2021 – 2025 **Career Transition**
 - Comprehensive preparation for a career in data, with focused training in MLOps, data analysis and data science.
 - Developed a project portfolio showcasing dashboards, predictive models and end-to-end data pipelines.
- 2017 – 2021 **Marie Curie Research Fellow** [University College Dublin, Ireland](#)
 - Awarded a €245k grant to develop ML solutions for manufacturing optimisation.
 - Implemented an ML-based anomaly detection system, reducing unplanned downtime by 15%.
 - Developed a reinforcement learning framework to train robotic manipulators.
- 2016 – 2017 **Postdoctoral Research Fellow** [University College Dublin, Ireland](#)
 - Optimised composite structures via and evolutionary optimisation, achieving a 20% improvement in stiffness-to-weight ratio.
 - Developed numerical models (FEA) to predict complex mechanical behavior, validating against experimental data.
 - Applied regression models to the simulation models in order to identify optimal material parameters.
- 2012 – 2015 **Teaching Assistant** [University of Exeter, UK](#)
Modules taught : solid mechanics, computational engineering, Computer-Aided Design.

Projects Portfolio

- [Link to Project](#) **MLOps Pipeline Deployment**
Skills : Docker, Flask, Azure, Github Actions
- [Link to Project](#) **Performance Monitoring with Grafana**
Skills : Grafana, Docker, Flask, Python
- [Link to Project](#) **Deployment of a Large Language Model Web Application**
Skills : Python, LLM, Streamlit, Docker
- [Link to Project](#) **Customer Data Cleaning with SQL**
Skills : MySQL, data cleaning, Exploratory Data Analysis
- [Link to Project](#) **Data Visualisation with Tableau**
Skills : Tableau, Exploratory Data Analysis, Business Intelligence
- [Link to Project](#) **Reinforcement Learning for Robotic Arm Control**
Skills : Python, reinforcement learning, robotics, Docker, Pytorch

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](#)
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 Cloud Computing Essentials with Azure [Analyst Builder](#)
- 2025 Tableau for Data Visualization [Analyst Builder](#)
- 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](#)
- 2021 Introduction to Data Analysis [Udacity](#)