

# Pierre Aumjaud

## Data Analyst

 Narbonne, France

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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 • PostgreSQL

### » Data Visualisation

Tableau • Streamlit • Matplotlib • Seaborn • Grafana • Prometheus

### » Data Integration

dbt • Snowflake • Airflow • Airbyte

### » DevOps

Git • Docker • Unit tests (Pytest) • CI/CD (Github Actions)

### » Web Development

HTML • CSS • Flask • Wordpress • Jekyll

## Languages

 French – C2



 English – C1



 Spanish – C1



## Socials



[linkedin.com/in/pierreaumjaud](https://linkedin.com/in/pierreaumjaud)

[github.com/PierreExeter](https://github.com/PierreExeter)

[pierreaumjaud.com](https://pierreaumjaud.com)

## Work Experience

2021 – 2025

### Career Transition

- Comprehensive preparation for a career in data, with focused training in data engineering, data analysis and data science.
- Developed a project portfolio showcasing dashboards, predictive models and end-to-end data pipelines.
- 20 volunteer work experiences in 8 different countries.

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-ENSM, France

**Modules:** *mechanical engineering, computer science, engineering mathematics, electronics.*

2007 – 2009

### BSc Engineering – ‘classes préparatoires’

Lycée Arago, France

**Modules:** *mathematics, physics, chemistry, engineering*

### 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