Pierre Aumjaud

Data Analyst

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- French

About Me

Data analyst with 8+ years of Python experience applied to **machine learning** and **data analytics**. Passionate about leveraging data to drive decisions, with expertise in **SQL**, **statistical analysis** and **Python**.

Skills

» **Python (8 years)**
Scikit-learn • Pytorch • NumPy • Pandas • Matplotlib • Jupyter

» **Databases**
SQL • MySQL

» **DevOps**
Git • Docker • Azure (Databricks, Synapse Analytics, Data Factory) Pytest • Travis CI • Anaconda • VS-Code

» **Web Development**
HTML • CSS • Streamlit • Wordpress • Jekyll

» **Other**
Linux/Bash • Arduino • Markdown • LATEX • ROS

Languages

- French – C2 ● ● ● ● ●
- English – C1 ● ● ● ● ○
- Spanish – C1 ● ● ● ● ○

Socials

linkedin.com/in/pierreaumjaud

github.com/PierreExeter

pierreaumjaud.com

Projects Portfolio

Link to Project	**Data Analysis and Regression Predictions**
	Skills : Python, Scikit-learn, Matplotlib, regression
Link to Project	**Exploratory Data Analysis and Classification Predictions**
	Skills : Python, Scikit-learn, Matplotlib, classification
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, missing values imputation
Link to Project	**Reinforcement Learning for Robotic Arm Control**
	Skills : Python, reinforcement learning, robotics, Docker, Pytorch
Link to Project	**Classifier Visualisation**
	Skills : Python, Scikit-learn, Matplotlib, supervised learning

Work Experience

2021 – 2025 Career Change
- Additional training to become a professional data analyst.
- 20 volunteer work experiences in 8 countries.

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	Cloud Computing Essentials with Azure	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