Arthur DANJOU

Data Science & Applied AI
Available for a final-year internship starting April 2026.

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Profile

Rigorous, curious, and motivated, I put my skills in **statistics**, **machine learning**, and **applied artificial intelligence** to work on concrete and innovative projects. Passionate about mathematical modelling and the deployment of AI solutions, I enjoy transforming **theory** into measurable results. My goal is to join a team of **Data Scientists or AI Researchers** to deepen my knowledge, contribute to high-impact projects, and prepare for a future **doctorate** in artificial intelligence.

Work Experience

ArtDanjProduction
AUTO-ENTREPRENEUR – REMOTE
FEB 2022 — TODAY

- Administration of a personal home lab (servers, databases, storage, backups) used as a platform for machine learning projects and MLOps experimentation.
- Actively learning and applying new technologies (LLMs, MLOps, NLP, Agents IA) through personal projects within a DevOps environment.
- Design, development, and maintenance of web, data, and cloud projects using Python, TypeScript, Vue.js, Nuxt 3, and R.

Sevetys
DATA ENGINEER INTERN – PARIS, FRANCE
JUN — JULY 2025

- Designing and implementing data cleaning protocols for client and patient data.
- Implemented daily data cleaning pipelines on Azure with PySpark, enhancing data quality by 20–30% depending on the clinic.
- Developed an automated monthly data quality report tracking completeness, consistency, and usability metrics by clinic.
- Worked closely with business teams to validate and optimize data quality rules.

Picard
STUDENT JOB – RUEIL MALMAISON, FRANCE
SEPT 2022 — NOV 2024

- Demonstrated ability to reconcile employment and demanding studies, developing organisational skills, autonomy and rigour while maintaining a priority on welcoming customers.
- Complete management of orders, stocks and supplies in one of the largest stores in the region.
- Extended responsibilities: independent opening and closing of the store, outside of scheduled duties.

Education

2nd year MSc in Statistical and Financial Engineering, Data Science track
PARIS DAUPHINE-PSL UNIVERSITY – PARIS, FRANCE
SEPT 2024 — MAI 2025

Dual Expertise: Theory & Practice in Advanced Data Science and AI Systems.
Core Theoretical Focus: Strong background in statistical modeling and advanced AI principles: Advanced Machine Learning, Learning Theory, Clustering, Deep Learning, Climate Risk Modeling.
Practical Skills: Hands-on experience in NLP, Reinforcement Learning, Generative AI, Data Quality, Data Visualisation.
Active Engagement: Scheduled participation in the Natixis and DIRISI Hackathons.

1st year MSc in Mathematics and Applications, Statistics track
PARIS DAUPHINE-PSL UNIVERSITY – PARIS, FRANCE
SEPT 2024 — MAI 2025

Key courses: Supervised Statistical Learning, Generalised Linear Models (GLMs), Monte Carlo Methods, Data Analysis, Non-parametric Statistics, Time Series, Numerical Optimisation.
Projects completed:

- **Generalised Linear Models** *(R & LateX)*: Developed a linear regression model to predict bike-sharing demand, assessing both predictive performance and model adequacy.
- **Statistical Learning** *(Python & LateX)*: Implemented and compared supervised learning algorithms (k-NN, neural networks, logistic regression, Naive Bayes) for breast cancer detection and patient classification.

BSc in Mathematics (Licence – French undergraduate degree)
PARIS-SACLAY UNIVERSITY – ORSAY, FRANCE
SEPT 2021 — MAI 2024

- **Schelling Segregation Model** *(Python & LateX)*: Statistical and probabilistic analysis of Schelling's segregation model, with simulation and results visualisation using Python.

Skills

- **Programming**: Python, R, TypeScript, Java, Git and LateX.
- **Libraries & Frameworks**: NumPy, Pandas, Scikit-learn, PyTorch, Matplotlib, Seaborn
- **Databases**: SQL, Redis
- **Cloud & DevOps**: Proxmox, Docker, Azure, Linux, SysAdmin
- **Multivariate Data Analysis**: Principal Component Analysis (PCA), Correspondence Analysis (CA), clustering techniques, and correlation analysis
- **Supervised Learning**: k-NN, linear and logistic regression, CNN, Naive Bayes
- **Unsupervised Learning:** clustering, dimensionality reduction, k-means, CNN
- **IA & Modern Models**: Natural Language Processing, Transformers, Large Language Models, AI agents, embeddings, and fine-tuning

Soft Skills

Strong Analytical Skills – Scientific Curiosity – Technical Independence – Effective Communication

Languages

- Native French
- English (Advanced)

Interests & Hobbies

Automobile & Motorcycle
- Passionate about Formula 1 and car spotting, with a keen interest in mechanical performance and on-board technology.

Team Sports
- Played rugby for 5 years in a club and 4 years in sports studies at school.
- Former team captain, participating in the French school championships.
- Avid volleyball and soccer fan.

Portfolio

All my academic and personal projects are available on my website: *arthurdanjou.fr*.
You can also find my blog here: *go.arthurdanjou.fr/writings*