

# Arthur DANJOU

Master's student in Applied Mathematics at Paris-Dauphine University, specializing in Statistics and Machine Learning.

## Profile

Passionate about mathematics and artificial intelligence, I am seeking a 3-month internship to apply my skills in modeling and data analysis to real-world challenges. Currently training in advanced statistical methods and machine learning, I am curious and detail-oriented, eager to contribute to innovative projects bridging theory and practical applications.

## Education

SEP 2024 – MAY 2025

### M1 Mathematics Applied in Statistics

UNIVERSITÉ PARIS-DAUPHINE

- **Project: Monte Carlo Simulation** (Project in R and report in LaTeX)  
• Exploration of various estimators using Monte Carlo methods and algorithms.
- **Project: Generalised Linear Models** (Project in R and report in LaTeX)  
• Predicting the number of bikes rented in a bike-sharing system.  
• Application of linear regression techniques.  
• Comparison of model performance and fit
- **Project: Statistical Learning** (Project in Python and report in LaTeX)  
• Breast cancer detection using various supervised learning techniques: k-NN, neural networks, logistic regression, and Naive Bayes.

SEP 2021 – MAY 2024

### Mathematics Bachelor's degree with honors (14,4/20)

UNIVERSITÉ PARIS-SACLAY

- **Project: Schelling's Segregation**  
• Statistical and probabilistic analysis of Schelling's segregation model.  
• Simulation and visualization of results using Python.

### Mathematics & Physics-Chemistry Baccalaureate

2021

with honors (15,2/20)

LA SALLE PASSY-BUZENVAL HIGH SCHOOL

## Work experience

FEB 2022 – PRESENT

### ArtDanjProduction

AUTO ENTREPRENEUR

- **Development**, design and conception of personal projects
- Learning new **programming languages** and new technologies
- Maintaining and updating projects in production
- Fixing **bugs**
- Writing documentation and articles related to projects
- Administration of my **homelab** - Configuration and management of a **Proxmox** and **Docker**-based homelab, hosting various services. Set up a **network infrastructure** to optimize performance and stability.

JUIN – JUILLET 2025

### Sevetys

DATA ENGINEER INTERNSHIP

- Python development with **PySpark** on Microsoft Azure.
- Data modeling for clients and patients based on business needs.
- Ensuring **data quality** for clients and patients.

SEP 2022 – NOV 2024

### Picard

SALES ASSISTANT II

- Welcoming and advising **customers**.
- Restocking and delivering products in the store.
- Ordering products depending on the global stock.
- **Cold-chain** monitoring and cleanup of the freezers.



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## Skills

- **Programming Languages** (Python, R, TypeScript, Java), **Git** and **LaTeX**.
- Main libraries (Numpy, Pandas, Scikit-learn, ...)
- **Databases** (SQL, Redis)
- Hosting and deployment (VPS and Cloud)
- Containerisation with **Docker**
- Principal Components Analysis (PCA)
- Factorial Correspondence Analysis (FCA)
- Inferential **Statistics** (tests, confident intervals and estimators)
- Generalized Linear Models
- Linear Algebra
- Time series

## Soft Skills

- **Organised**
- Determined
- Curious
- Patient
- Autonomous
- **Team player**

## Languages

- French (native)
- English (B2/C1)
- Spanish (A2)

## Interests

 Mathematics



AI



Programming

 Cloud & Infrastructure



Sport