

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.

2021

Mathematics & Physics-Chemistry Baccalaureate 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.

arthur.danjou@dauphine.eu +33 7 82 57 64 85

92500 Rueil-Malmaison, France

arthurdanjou.fr

arthurdanjou

arthurdanjou

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