



#### Fatalmoudou KONE

Looking for a 6-month internship in Data Science / AI / Big Data, starting March 2026, open to Luxembourg, Belgium and Switzerland

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in fatalmoudou-koné

github.com

### **Technical Skills**

• Big Data: Kafka, Spark, Pandas

• Visualization: Seaborn, Matplotlib

• Languages: Python, Java, C, SQL

• Tools: Linux, VSCode, Git, LaTeX, Docker

 ML & AI: scikit-learn, PyTorch, Hugging Face Transformers, NLP, ETL

## Certifications & Soft Skills

- IBM Data Engineering (ongoing): Data analysis, Rigor, Problem-solving
- Microsoft AI & ML Engineering (ongoing): Self-learning, Analytical thinking
- Cisco Network Academy Intro to Data Science: Scientific curiosity, Information synthesis
- Project Management MOOC: Organization, Time management
- Pix Digital Risk Prevention:
  Critical thinking, Digital vigilance
- Red Cross First Aid: Composure under pressure, Initiative
- INRS MOOC Health & Safety: Attention to detail, Responsibility

# Languages

- French (Native)
- English (TOEIC 810 B2+)
- Mandarin (Elementary)
- Bambara (Native)

#### Interests

- Cooking
- Puzzles and logic games
- Anime and manga

### **Education**

#### **TELECOM Nancy** (2023–2026)

Master's Degree in Computer Science

Specialization: AI & Big Data

Courses: Machine Learning, Deep Learning, Big Data Technologies, Data

Visualization

#### University of Lorraine - Nancy (2025-2026)

Master's in Mathematics and Applications

Specialization: Mathematical Engineering for Data Science

Courses: Statistical Learning, Optimization, Stochastic Processes, Financial

Mathematics.

#### Paris 8 University (2025-2026)

Bachelor's in Computer Science, Minor: Psychology

Courses: Data Mining, Interpretation and Compilation, Verbal Data Analysis

#### University of Grenoble Alpes – UGA (2021–2023)

Bachelor's in Mathematics & Computer Science - 1st-2nd year

Courses: Functional and Imperative Programming, Numerical Analysis,

Linear Algebra

### **Professional Experience**

#### AREAL - RAG Optimization (Sept 2025-present)

Optimizing a RAG-based chatbot for knowledge access, improving retriever/generator efficiency.

INRIA - Nancy (Jun-Aug 2025)

Processed and structured a **10TB robotics dataset**; developed facial recognition & anonymization tools.

#### CRAN - University of Lorraine (Feb-May 2025)

Enhanced a 6-minute walking test using Madgwick filter: +20% accuracy in patient trajectory.

#### Télécom Nancy Services – IT Systems Director (2023–2024)

Managed IT systems for **15 members** and updated website (content, logos, branding), improving readability and accessibility.

# **Additional Experience**

### KOSY Appart'Hôtel - Operations Intern (Jul 2024)

Customer relations, operational coordination; **improved customer satisfaction**.

**Afev – Volunteer** (2023–2024)

Tutored a student, improving average grades by +2 points.

University of Grenoble Alpes – Math Tutor (Sept-Dec 2022) Led tutorials for **20 students**, with a final pass rate of **60%**.

# **Projects**

- Fraud Detection System: Kafka + Spark pipeline .
- Pacman Al Agent: Decision-making with A\*, Minimax, Expectimax
- Visualization Dashboard: Built interactive dashboards (Pandas, Matplotlib)
- Biomedical Data Tool: Explored disease-treatment relations with medical datasets
- Mini-Python Compiler: Implemented in Java