

ZAKARIA
HANSALI

Data Scientist (R&D)

✉ zaka.hansali@gmail.com

☎ +33 7 54 12 86 31

📍 Paris / Remote

🌐 jilicuerda.netlify.app

TECH STACK

Python (Pandas/Numpy)

PyTorch / ML

SQL

Docker / Git

Time Series Analysis

LANGUAGES

English: Professional

French: Native

Spanish: Professional

Arabic: Native

Why me for Kayrros?

Kayrros solves complex problems using AI and Satellite data. While I am completing my Bachelor's degree, my profile is heavily focused on **R&D and Engineering**. I have conducted benchmarks on LLM inference (SGLang vs vLLM), built ETL pipelines for telemetry data, and developed **Time Series Forecasting** tools. I bring operational Python skills and a rigorous scientific mindset to the team.

R&D & ENGINEERING PROJECTS

LLM Inference Optimization (Benchmark)

R&D | Python | CUDA

• **Challenge:** Optimizing AI model latency for production environments.

• **Methodology:** Reviewed scientific literature on memory management (PagedAttention vs RadixAttention).

• **Implementation:** Benchmarked vLLM vs SGLang on H100 GPUs, analyzing throughput and signal latency.

• **Result:** Identified a 29% performance gain, demonstrating ability to apply state-of-the-art research.

Time Series Forecasting Tool

Stats | Signal Processing

• **Relevance to Kayrros:** Energy markets and climate data rely heavily on temporal analysis.

• Developed a tool to analyze sequential data points, applying **Moving Averages** and smoothing algorithms to detect trends and anomalies.

• Visualized results to aid decision-making (similar to "Products for Traders").

Telemetry Data Pipeline (ETL)

Data Engineering | SQL

• Built a robust pipeline to ingest, clean, and store raw telemetry logs (unstructured data).

• Ensured data quality and consistency before analysis, collaborating with engineering principles (Git, Modular Code).

EDUCATION

B.U.T. Statistics & Business Intelligence (Data Science)

2022 – Present | IUT des Pays de l'Adour

• Specialized in Data Science: Exploration, Modeling, and Visualization.

• Intensive curriculum in **Statistics** and **Computer Science** (equivalent to 180 ECTS).

• Focus on practical application: Machine Learning, Big Data (Spark notions), and Database Management.

INTERESTS

Climate & Energy:

Keen interest in how AI can optimize energy transition.

Tech Watch:

Regularly following advancements in Generative AI and Earth Observation.