

Khadara DIARRASSOUBA

Computer Engineer passionate about AI, automation, and data, currently seeking a new opportunity (permanent or fixed-term contract) in the data field. I work on projects involving analysis, development, and process optimization with a clear objective: turning complexity into simple, efficient tools.

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EXPERIENCE

Zumtobel Group Lighting France, Business Data Analyst August 2023 – Present

- Reduced production time by 80% by automating reports using Excel VBA.
- Built an ETL pipeline from SAP to Excel/Power BI: extraction, transformation (Power Query), and loading.
- Created Power BI dashboards for sales and marketing management teams.
- Developed a budget management application (Python, SQL), versioned on GitHub.
- Wrote technical and functional documentation.

Academia, Excel Power BI Trainer January 2023 – Present

- Trained professionals and managers in advanced Excel: Pivot Tables, Power Query, VBA.
- Designed educational resources and practical cases on automation.

PROJECTS / HACKATHONS

Final Year Project: LLM Text Summarization API

Python, Spacy, FalconsAI

Automatic text summarization API with contextual response to user queries.

Internship – Coagulant Rate Prediction for Raw Water Treatment

Python, Matlab, Excel

Neural network predicting the coagulant doses required based on water characteristics.

Typing Speed Game

Python, PostgreSQL, Docker, Claude AI, VPS KVM 2 management

Gamified typing game with scoring system, custom interface, and user database.

Genea

Python, PostgreSQL, Docker, Claude AI, VPS KVM 2 management

Development of a family pedigree management application.

AI Agent – Natural Language n8n Workflow Generation

n8n, Langchain, OpenAI API, JavaScript, Python, RAG, GitHub API

Dynamic automation of complex workflows from text-based requests.

AI Agent – Workflow Backup

Automates push of n8n workflows to a remote Git repository to ensure continuous backup and synchronization.

AI Agent – Invoice Reader and Notion Integration

Automatically extracts and inserts invoice data into a structured Notion database.

AI Community Manager Assistant

Automatically generates content (posts, images) and schedules them via API.

TECHNICAL SKILLS

AI / Deep Learning: Transformers, LangChain, RAG, NLP, Vision, LLM Agents
Machine Learning: Clustering, Neural Networks, Bagging, Boosting, PCA, Bayesian Statistics
Data Tools: Power BI, Tableau, SAP, Power Query, Dataiku, Hugging Face
Cloud / Big Data: Azure ML, Hadoop, Spark, Kafka, Hive
Development: Python, Java, R, C, Bash, VBA, Docker, Git, CI/CD, API, LaTeX
Databases: SQL, PostgreSQL, MongoDB, Neo4J, UML
Project Management: Jira, Scrum, Monday, Office, Canva
Languages: French (native), English (B2 TOEIC), Spanish (basic)

SOFT SKILLS

Problem Analysis Solving: Data-driven approach, critical thinking, ability to diagnose and resolve complex issues.
Communication: Ability to explain technical concepts to non-technical audiences, clear documentation and reporting.
Adaptability Autonomy: Initiative-taking, quick learning of new tools and environments.
Team Spirit: Collaborative work, active involvement in student associations and sports projects.
Creativity Innovation: Proactive in optimizing processes and developing tailored solutions.

EDUCATION

École Centrale d'Électronique (ECE Paris) Engineering degree in Computer Science (specializing in AI Data)	2023 – 2025
École française d'électronique et d'informatique (Efrei Paris) Bachelor's degree in Computer Science	2022 – 2023
INPHB – Institut National Polytechnique F. Houphouët-Boigny Engineering degree in Water Treatment and Management	2019 – 2022
Preparatory Classes – BCPST (Biology, Chemistry, Physics, Earth Sciences)	2017 – 2019

INTERESTS

Football – Video games (FC25, Fortnite) – Board games (Werewolf)