MAME LIBASSE MBOUP

Data / AI Engineer

@ libasselaye01@gmail.com 📍 Toulon, France 📞 +33 6 51 98 36 14 🌐 **libasse.tech**

*4+ years of experience in **data science**, **data engineering** and **machine learning**, in **public health** (ARS PACA / Ségur), **telecommunications** (Orange) and **energy** (Enedis). Expertise in **Agentic AI**, Data Analysis, Machine Learning, Deep Learning, BI and ETL. Proficient in **Python**, **SAS Viya**, **n8n**, **SQL** and Cloud tools.*

PROFESSIONAL EXPERIENCE

Data Scientist – Public Health

Innovation e-Santé Sud (GRADeS PACA)

📅 Oct. 2022 – Present 📍 Hyères, France

- Hospital bed mapping: real-time visualization tool for available healthcare capacities, powered by automated data feeds, deployed for crisis management (Covid-19, mass casualty plans, hospital strain) at ARS PACA.
- CONTESS: decision-support dashboard for the Ségur digital health program across 6 sectors, cross-referencing DMP, MSS, INS and Pro Santé Connect usage via multi-source SAS Viya pipelines.
- Development of strategic dashboards to support regional management and improve care coordination (OKAPI, ETP, Emergency/SAMU-SMUR, ROR, E-parcours).
- TRU Modeling (ARS PACA): tool identifying at municipal level the factors influencing avoidable emergency visits, based on demographic, health, care access and socioeconomic variables, to guide unscheduled care deployment.
- Migration of BI reports from Jaspersoft to SAS Viya and automation of data processing with Python/SQL.
- Regional SAS Viya platform administration (access rights, Caslibs, user groups, multi-source data integration).
- Automated medical data extraction (reports, prescriptions, lab results in PDF/images) via multimodal LLM (Gemini), with structured output to Google Sheets using n8n.
- Healthcare professional address verification through cross-checking via Google Maps (Apify) and PagesJaunes (SerpAPI), with inconsistency detection and automatic database updates.
- Intelligent Redmine ticket triage: automatic classification and assignment via LLM analysis, priority determination, consistency checks and dynamic agent assignment within DTSI.

Data Scientist – Work-Study

Orange

📅 Sept. 2021 – Sept. 2022 📍 Lyon, France

- RPA automation (UI Path) and advanced data visualization with Kibana and Power BI for operational team management.
- Development of statistical models on large-scale heterogeneous data streams (network monitoring).

Data Engineer – Internship

Enedis

📅 Apr. 2021 – Sept. 2021 📍 Toulon, France

- Full-stack regional energy monitoring application (CodeIgniter/PHP/MySQL) for real-time field consumption tracking.
- Multi-source data integration via Denodo (VQL), analytical reports for regional management.

PROJECTS & RESEARCH

Academic Research
- Co-clustering of spatio-temporal data in R — M2 Thesis, Université Lyon 2.
- Paper on article categorization via semantic keyword relationships (abstracts and titles).

NLP & Deep Learning
- Word Embedding, preprocessing. DBLP visualization (NetworkX, Umap, Pyvis). Topic Modeling (LDA). Search engine and author identification.
- Skip-Gram (GloVe). RNN, CNN, Encoder-Decoder + Attention. Fine-tuning BERT.

Machine Learning
- Decision Trees, Random Forests from scratch (OOP). Mixture models (EM, SVM, K-Means) on MNIST.

Development & Games
- Real-time multiplayer Quiz (WebSocket, Node.js, MongoDB). 3D Karting (Three.js). Reversi/Othello (SDL2, WebAssembly). Dark Souls RPG in Java.

AI & Web Applications
- FIFA Fish: B2B seafood export platform (Next.js 15, PostgreSQL, NextAuth.js). Ghost Intelligence Solutions: AI agency with integrated n8n chatbot.

EDUCATION

Master Machine Learning for AI
Université Lumière Lyon 2

📅 Sept. 2020 – Sept. 2022
- Advanced supervised learning, Deep learning, Manifold learning, Model-based learning, Parallel computing, NLP, Text Mining, Big Data management and analytics.

BSc Computer Science
Université du Littoral Côte d'Opale

📅 Sept. 2018 – Sept. 2020 · Calais, France

BSc Mathematics & Computer Science
Université de Thiès

📅 Sept. 2015 – Sept. 2018 · Thiès, Senegal

SKILLS

▶ Programming & Dev

Python | SQL | R | SAS | Bash | Git | REST API | Docker | CI/CD

▶ Machine Learning & Deep Learning

Scikit-learn | TensorFlow | PyTorch | NLP | Time Series | Clustering | Classification | Regression

▶ Data Engineering & Cloud

PostgreSQL | MongoDB | Hadoop | dbt | Spark | GCP | ETL | Airflow

▶ BI & Automation

SAS Viya | Power BI | n8n | UI Path (RPA) | Streamlit

▶ Generative AI & Agents

LLM | RAG | Fine-tuning | Prompt Engineering | Claude Code | OpenClaw | Ollama | LangChain | AI Engineering

SOFT SKILLS

Analytical Thinking | Rigor | Autonomy | Teamwork | Communication | Adaptability | Project Management | Mentoring
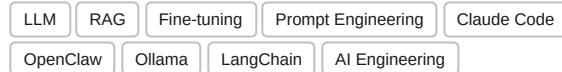
LANGUAGES

French ●●●●●
Wolof ●●●●●
English ●●●●○
German ●●○○○

CONTINUING EDUCATION

Coursera Specializations: MLOps, AI Agents, Prompt Engineering, Generative AI, Healthcare AI, Data Modeling & Transformation.

INTERESTS

▶ Sports

Weightlifting, Football

▶ Entrepreneurship

AI & Health projects

▶ Video Games

FC, GTA