Alex Martinez

ML & AI Engineer (LLM, RAG, AI agents) - 8+ years of experience

Boulogne-Billancourt, France | Email: alex-martinez-pro@proton.me | LinkedIn: linkedin.com/in/alex-yahiaoui-martinez | GitHub: github.com/alexym1 | Website: alexym1.github.io

PROFILE

Experienced in industrializing AI and statistical algorithms in the life sciences and cosmetics industries, now focused on RAG and AI agents. GCP certified. Available for freelance missions.

SKILLS

- Generative AI: LLM, RAG, AI agents
- Machine learning and statistics: modeling, benchmarking, model retraining, data drift
- Engineering: Python, APIs, unit and integration testing, Docker, CI/CD, Git, GitHub
- Cloud and systems: Google Cloud (GCP), Unix / Linux, SQL
- Compliance: model documentation compliant with the EU AI Act

PROFESSIONAL EXPERIENCE

Freelance ML & AI Engineer - Self-employed
January 2027 - Present

Helping companies design and industrialize their AI solutions: generative AI (RAG, AI agents), MLOps and data science.

AI Engineer & AI Product Manager - Coptis
April 2026 - December 2026

Designed and shipped GenAI features into Coptis SaaS as a Product Builder, delivering in iterative 2-week sprints.

- Built an LLM + RAG solution that automatically extracts key insights from raw-material supplier documents, whatever their type or format.
- Developed a reverse-formulation tool that reconstructs a cosmetic formula from an INCI list, selecting the best-matching raw materials and their proportions.
- Built an agentic workflow that generates regulatory-compliant cosmetic formulas from marketing briefs.

Consultant, ML Engineer - L'Oréal
February 2024 - March 2026

Industrialized AI and statistical algorithms within L'Oréal's Research & Innovation department. Collaborated with multidisciplinary teams including data scientists, DevOps engineers and Algo Product Owners.

- Industrialized 30+ statistical/AI algorithms and managed their lifecycle.
- Transformed Jupyter notebooks into production-ready APIs.
- Retrained AI models to address data drift.
- Implemented testing methods that significantly reduced the risk of bugs being released into production.
- Wrote comprehensive documentation in compliance with the EU AI Act.

Data Scientist - Geneseng

January 2022 - December 2023

Industrialized a multimodal AI platform that helps researchers discover new diagnostic biomarkers. Contributed to open-source packages.

- Applied advanced data science and machine learning techniques to discover new diagnostic biomarkers.
- Implemented MLOps practices (APIs, web apps, Docker containerization, CI/CD pipelines) to deploy to Google Cloud.
- Developed dynamic reports for technical and non-technical stakeholders, facilitating data-driven decisions.

Biostatistician - Nîmes University Hospital

January 2019 - December 2021

Microbiology department and INSERM U1047: identified new biomarkers of microbial translocation in diabetic foot ulcer patients.

- Statistical analysis of clinical datasets; validation of new measurement methods.
- Set up a high-throughput sequencing platform; DNA sequence analysis (Galaxy).
- Co-authored peer-reviewed articles; literature curation via the PubMed API.

EDUCATION

Master's in Biostatistics - University of Montpellier (France)

2016 - 2018

Bachelor's in Life Sciences - University of Montpellier (France)

2013 - 2016

ACHIEVEMENTS

- souverainete: deploy AI agents on a sovereign cloud (coming soon).
- taglyatelle: AI agent that automates GitHub processes (github.com/Taglyatelle/taglyatelle).
- Google Cloud certification "Cloud Digital Leader".

LANGUAGES

- French: native
- English: proficient

ADDITIONAL INFORMATION

EU driver's license. References available on request.