

FAYCAL BENAÏSSA

Data Scientist / AI Engineer

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SUMMARY

Data Scientist and AI Engineer with 3+ years of hands-on experience in large-scale data processing, AI-agent design and production LLM deployment, delivering end-to-end R&D projects from design to production. Strong ML and MLOps skills, a CS background (MIAGE-ID, Université Paris Dauphine-PSL) and applied research experience in quantitative finance.

SKILLS

Languages	Python, Golang, C++, JavaScript/TypeScript, SQL
Generative AI	LLMs, AI agents, multi-agent systems, LangChain, RAG, Hugging Face
Machine Learning	scikit-learn, Keras, XGBoost, Random Forest, recommender systems (eALS), semi-supervised learning
Data & Big Data	PostgreSQL, MySQL, QuestDB, MongoDB, Redis, PySpark, MapReduce, Talend, Tableau, Qlik
DevOps & Web	Docker, Kubernetes, GitLab CI/CD, ArgoCD, Nuxt 3, Next.js, Spring Boot, REST APIs
Security	CVE analysis, static code analysis (CodeQL, Semgrep), SecOps automation

EXPERIENCE

Alcatel-Lucent Enterprise <i>Data Scientist / AI Engineer</i>	Sept. 2025 – Present <i>Île-de-France, France</i>
- Built a multi-agent AI system that determines whether a CVE genuinely affects a product or is a false positive, automating vulnerability prioritisation in the SecOps workflow. - Integrated static code analysis (CodeQL, Semgrep) and internal knowledge bases to give agents verifiable reasoning context. - Cut manual vulnerability handling by over 60% and industrialised the pipeline in production.	
Alcatel-Lucent Enterprise <i>Data Scientist / AI Engineer</i>	Sept. 2024 – Sept. 2025 <i>Île-de-France, France</i>
- Designed an interactive AI-agent debugging assistant (LangChain, LLMs) helping developers locate bugs and their root cause. - Built a code graph modelling dependencies between symbols, files and services, used as a tool by the agents to navigate the codebase. - Trained a semi-supervised model linking production runtime logs to the executed source code, accelerating incident diagnosis in post-mortem analysis.	
LCL Banque <i>Software Engineer (apprenticeship)</i>	Sept. 2023 – Sept. 2024 <i>Paris, France</i>
- Developed an internal platform tracking teams' architectural skills and per-squad maturity indicators. - Built the REST API in Golang and the UI in Nuxt 3 / Tailwind CSS, and designed the PostgreSQL schema (relational modelling, versioned Flyway migrations). - Set up the full CI/CD pipeline (GitLab CI, ArgoCD, Kubernetes) for automated deployment to the internal cloud.	
Dau'IA — Dauphine-PSL <i>Head of Technical Division (student association)</i>	Oct. 2024 – Present <i>Paris, France</i>
Lead an applied research track in quantitative finance: reproducing strategies from academic papers, building interactive interfaces to test hypotheses on real market data, and mentoring student contributors.	

EDUCATION

M.Sc. MIAGE-ID — Information Systems & Decision Engineering (apprenticeship) <i>Université Paris Dauphine-PSL — AI, data science, decision engineering, information systems</i>	2024 – 2026 <i>Paris</i>
B.Sc. Computer Science — MIAGE track (apprenticeship) <i>Université Paris Dauphine-PSL — computing applied to management, databases, software engineering</i>	2023 – 2024 <i>Paris</i>
Université Sorbonne Paris Nord — B.Sc. Computer Science, Years 1 & 2	2021 – 2023

PROJECTS

- Paris 2024 Olympics Data Warehouse** (Dauphine-PSL) — End-to-end **Talend** architecture: multi-source ingestion, orchestrated **ETL**, dimensional **star schema** and an interactive analytics layer.
- Distributed Recommender System — eALS / PySpark** (Dauphine-PSL) — Element-wise Alternating Least Squares in **PySpark** over **millions of implicit interactions**, benchmarked against classical baselines.
- LLM Training-Data Quality Indicator** (Dauphine-PSL) — Composite metric scoring a training corpus on text quality, toxicity, deduplication and **PII leakage**, as an automated evaluation pipeline.
- Algorithmic Bias Mitigation Platform — ethique.dauia.com** (Dau'IA) — Web tool measuring and correcting bias (gender, age, origin) in predictive models, deployed for teaching algorithmic fairness.

LANGUAGES

Arabic – fluent • French – fluent • English – professional working proficiency