Juste-Medis ADIDO

Junior Machine Learning Engineer

Data Scientist (Remote)

Work-study M.Sc. candidate, available for remote contract (Full-time from 2027)

CONTACT DETAILS

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- Reims & Paris, France (100% Remote)
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KEY SKILLS

Machine Learning & Data Science
Logistic Regression, Random Forest, XGBoost, LightGBM, SVM, K-Means, PCA, Feature Engineering (RFM, time-series), Imbalanced Data (SMOTE on train only, class weights

NLP, Generative AI & LLMs
Production RAG, FAISS Vector Search (IndexFlatIP, L2 norm), Multilingual Sentence-BERT, Transformers (HuggingFace, spaCy)

Live SQL & Data Engineering (ETL)
Advanced MySQL & PostgreSQL (complex joins, CTEs, window functions, GROUP BY/HAVING, index-friendly date filtering, tables >1.8 GB), MongoDB, Redis (TTL), Python ETL (Pandas, NumPy, Polars, Requests, BeautifulSoup, rotating proxies).

BI, Dashboards & Visualisation
Power BI (real-time KPI reporting, VP-ready executive dashboards), Matplotlib, Seaborn, Plotly, Advanced Excel, Jupyter Notebooks

Software Engineering, DL & MLOps
Python 3.11 (Expert), SQL (Advanced), Java, C, JavaScript/Node.js, Flutter, PyTorch, TensorFlow, Keras, YOLO v10, OpenCV, REST APIs (Flask, FastAPI), Strategy Pattern, Docker, Git/GitLab, CI/CD, Linux.

Continuous Upskilling
Databricks, Apache Spark (PySpark), Snowflake, Tableau, AWS SageMaker (target cert. 2027).

SOFT SKILLS & STRENGTHS

Executive Communication: Presented weekly KPIs to a non-technical director focusing on business impact, conversion, and SEO.
Analytical Decision-Making: Methodical evaluation of cost, time, and accuracy trade-offs (e.g. hybrid local RAG vs Fine-Tuning).
Adaptability & Self-Learning: Mastered FAISS and RAG independently in weeks; refactored live ETL when supplier schemas changed.
Remote & Agile Teamwork: Proven track record in 100% remote weekly sprints with active listening and cross-functional collaboration.

LANGUAGES

French: Mother tongue (Native)
English: B2+ Professional working proficiency

Results-driven M.Sc. in Artificial Intelligence candidate (URCA, 2027) in a work-study programme at DriveOnly, with hands-on experience across the full production lifecycle: acquiring and cleaning messy data at scale, building machine learning and RAG/FAISS systems, writing live analytical SQL, and designing executive Power BI dashboards. Proven ability to translate complex models into measurable business outcomes (conversion, churn retention, cost reduction) while transparently documenting metrics, architectural decisions, and system limits. Experienced in full-remote agile teams.

WORK EXPERIENCE

Machine Learning Engineer & Data Scientist (M1 Intern then M2 Work-Study),
DriveOnly - *Jan 2026 to Present, Automotive & Motorbike E-commerce, Antibes, France*
Conversational AI & Production RAG (Model Story): Evaluated Fine-Tuning vs RAG using a decision matrix (cost, latency, catalogue freshness) and deployed a 3-tier Python/Flask system: (1) Multilingual Sentence-BERT FAQ matching (<100ms, 0.70 cosine threshold, 60% of traffic), (2) NLP vehicle entity extraction (<500ms, 30% of traffic), (3) RAG over 265,000+ FAISS product embeddings (IndexFlatIP, L2) with local Qwen-3.5:9B via Ollama (Socket.IO streaming, Redis 1h TTL, $0 API cost, GDPR-compliant). Achieved 90%+ query resolution in integration tests, resolved regex intent false positives (order tracking vs delivery) via LLM fallback, and scoped supervised fine-tuning on real logs.

ETL at Scale on Messy Data & Live SQL Optimisation: Engineered Python web-scraping pipelines across 3 European suppliers (UK, Germany, Poland) and adapted the ETL workflow mid-project when a supplier replaced all product references. Deduplicated and normalised 265,000+ catalogue rows using regex, SQL and LLM tag extraction. Audited and rebuilt critical MySQL tables (ps_product_lang 1.8 GB, ps_search_index 1.35 GB, purged 200+ ghost products).

Web Performance Analytics, UX & Executive Reporting: Audited platform performance (Lighthouse, Screaming Frog) and cut LCP by 59% (from 5.8s to 2.4s), boosted Mobile PageSpeed by 50% (from 32 to 48), reduced CLS by 68%, and fixed 100% of broken product images. Built a cascading SQL/JS Mega Menu reducing part discovery from 8-12 clicks to 2-3 clicks (-83%). Presented weekly KPI progress to the non-technical company director in clear business terms.

Data, AI & Full-Stack Developer (Internship),
JATAI *(Jun 2025 to Nov 2025, PropTech & Digital Solutions, Paris, France)*
End-to-End Data Pipeline & BI Dashboards: Designed and automated a complete data workflow (collection, Pandas cleaning, structuring) and built an interactive analytical dashboard (Power BI, Python, Excel) tracking strategic KPIs for management.
Deep Learning Deployment & Centralised API: Deployed Computer Vision models (YOLO, PyTorch) into production and developed a cross-platform Flutter application connected to a centralised Node.js and MongoDB REST API.

Software & Data Engineer (Banking Sector),
DMD Sarl *(Jul 2022 to Aug 2023, Digital & Banking Services, Cotonou, Benin)*
Automated Banking ETL & NLP Preprocessing: Built Python pipelines (Pandas, NumPy) to extract, clean, preprocess text, and store (MySQL, MongoDB) over 50,000 monthly banking complaints, cutting operational processing time by 60%.
Real-Time Executive Dashboards: Developed REST APIs feeding real-time Power BI dashboards to monitor banking SLAs, complaint trends, and operational KPIs in a Docker and Redis environment.

EDUCATION & TRAINING

Master's Degree (M.Sc.) in Artificial Intelligence & Deep Learning (Work-Study), University of Reims Champagne-Ardenne (URCA), France **(2025 to 2027)**
Coursework: Machine Learning, Deep Learning, NLP, Computer Vision, Big Data, Advanced Statistics, Numerical Optimisation, Docker, CI/CD.

Master 1 in Artificial Intelligence, University of Reims Champagne-Ardenne (URCA), France **(2024 to 2027)**
Capstone Project (70-page report): End-to-end DriveOnly AI System (Academic Supervisor: Ms Itheri Yahiaoui).

Bachelor's Degree (B.Sc.) in Computer Science, INSA Hauts-de-France (UPHF) & URCA, Valenciennes and Reims, France **(2023 to 2025)**
Algorithms & Data Structures, Relational (SQL) & NoSQL (MongoDB) Databases, Data Analysis, Python, Java, C, Linux, Introduction to Artificial Intelligence

Bachelor's Degree in Business Computing (Honours / Mention Bien), University Institute of Technology (IUT), University of Parakou **(2017 to 2020)**
Applied Business Statistics, Decision Analytics, Database Administration, Software Engineering, Financial Analysis.