

aicha amel DJELLOUL

Data/ML Engineer & Software Developer

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Data/ML Engineer & Software Developer — Master's degree in Artificial Intelligence (École Centrale de Lille)

I cover the full product lifecycle:

Ingestion & pipelines: SQL, PySpark, AWS

Modelling: supervised / unsupervised learning & time-series in Python

Application engineering: end-to-end app development in Python, including clean API design, testing, and CI/CD

Production & performance: containerised deployment with Docker, automated builds & releases on AWS

EDUCATION

Master in Artificial Intelligence - MIAS

From September 2023 to July 2025

École Centrale de Lille, Villeneuve-d'Ascq, France

Bachelor's degree in Computer Systems

From September 2019 to August 2022

Ferhat Abbas University, Sétif, Algeria

Master 1 in Artificial Intelligence and Fundamental Computer Science.

WORK EXPERIENCE

Data Scientist Intern

From January 2025 to July 2025

Amazon, Luxembourg, Luxembourg

- **Same-Day Delivery Optimisation:** Delivered **4 optimisation modules** that unlocked **€ 1.9 M+ ROI** for the EU network. Solutions written in **Python & Rust**, containerised with **Docker**, and powered by **Athena, S3, Lambda, Glue, Redshift** for end-to-end data flow and decision support.
- **Peak-Speed & In-Stock Forecasting:** Designed a near-real-time forecasting pipeline in **PySpark** on **AWS Glue/S3**. Leveraged **Prophet/DeepProphet** models to predict **Peak speed (≤ 1 -day)** and **ASIN in-stock levels** with high accuracy, enabling proactive inventory and capacity planning.
- Partnered with science, ops, and product teams to translate business problems into scalable, data-driven solutions and rolled out live dashboards for performance monitoring.

Data Scientist Intern

From April 2024 to September 2024

Amazon, Luxembourg, Luxembourg

- **Designed a global, probabilistic-optimisation service for Amazon Global Transportation Services (GTS)**
 - **End-to-end pipeline:** Cradle data → Lambda-orchestrated training & inference → scored outputs to S3.
 - **Replaced slow, SQL-only reports** with stochastic models that predict network speed and stock availability.
 - **Rolled out company-wide**, supporting Next-Day & middle-mile teams on four continents.
 - **Impact:** > **XXX M \$** annual savings through faster, data-driven decisions.

Freelance - Python Odoo Developer

From June 2022 to August 2023

WIKEYS, Saint-Denis, France

- Development and maintenance of custom modules for the Odoo ERP system using Python and the Odoo framework.
- Participation in agile development methodologies. Conducting software testing and debugging to ensure high-quality deliverables.
- Implementation of customized features based on client requirements.
- Providing technical support and training to end-users to ensure smooth adoption of the system.
- Identifying possible enhancements to optimize the performance of the Odoo ERP system.

WORK EXPERIENCE	Internship - Bioinformatics <div>From January 2023 to June 2023</div> <div>Cancer Research Center, Sétif, Algeria</div> <ul style="list-style-type: none"> • Development of machine learning models for cancer diagnosis using R and Python. • Analysis and interpretation of genomic data. • Collaboration with senior researchers to develop innovative approaches for genomic data analysis.
	Freelance - Python Developer <div>From June 2023 to October 2023</div> <div>ITSourcecone, Jordan</div> <ul style="list-style-type: none"> • Testing software and debugging to ensure high-quality deliverables. • Collaborating with team members to design and implement software features. • Documenting project progress and providing status updates to the project manager. • Developed and maintained custom modules for the Odoo ERP system using the Python programming language and the Odoo framework.
LANGUAGES	French Fluent (C1)
	English Fluent (C1)
	Arabic Native
COMPUTER SKILLS	Programming Languages Python, C++, SQL, PostgreSQL, Java, R.
	Machine Learning Deep Learning, Neural Networks, Classification, Regression.
	Data Analysis Data Mining, Data Visualization, Statistical Analysis, Excel.
	Software Development Agile Methodologies, Version Control (Git), Software Testing.
	Bioinformatics Genome Sequencing, Gene Expression Analysis, Variant Analysis...
	Development of Odoo ERP Customization, Creation of new modules, etc.
	Business Intelligence and Artificial Intelligence Ontology, Weka, CNN (Convolutional Neural Network), Protégé, Prolog, Quicksight, Redshift, Cognos...
INTERESTS	Data Analysis
	Cooking
	Shopping
	Travel