

# aicha amel DJELLOUL

## Data/ML Engineer & Software Developer

aichaamal.djelloul@yahoo.com

59000, Lille, France / 1324 Bouneweg-Stud Luxembourg

LinkedIn: <https://linkedin.com/in/aicha-amel-d-b3349010b> | Portfolio: <https://portfolio-aichaameldjelloul.streamlit.app/>  
+33 7 74 97 83 44

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 ( $\leq 1$ -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.

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