

# MOHAMED AL JALANJI

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France

## PROFESSIONAL SUMMARY

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Data Science & AI Practitioner with a hybrid background in data science and computer science. Pragmatic problem-solver focused on LLMs, agentic systems, LLMOps, and robust MLOps. Skilled in end-to-end model development, fine-tuning, deployment, and evaluation across environments (self-hosting & AWS). Continuously up to date with the latest AI research, papers, and emerging techniques.

## WORK EXPERIENCE

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**Data Scientist & AI Engineer (LLMs)** **Nov. 2025 – Now**  
*PrediSurge* *Saint-Etienne, France*

- Built an end-to-end agentic RAG pipelines over structured data and PDFs with the use of fine-tuned SLMs and modular Pydantic-driven orchestration that are deployed over AWS with Bedrock integration.
- Implemented comprehensive LLMOps workflows covering deployment, monitoring, and RAGAS-based evaluation for retrieval and generation quality.

**AI Engineer** **Oct. 2023 – Sep. 2025**  
*APTIV* *Vannes, France*

- Transformed optimally dataflow graphs to Logical Execution Time (LET) design for automobile projects using Constraint Programming (Z3), ensuring the reduction of LET design manual labor by almost **70%**.
- Fine-tuned the LLM model CodeT5 using Pytorch to translate text to a local automobile platform command language, and developed evaluation metrics & parsers needed, achieving an accuracy of **91%**.
- Developed Cloner tool for systematic duplication of AUTOSAR Classic elements using lxml Python library to reduce time-execution errors for a local SensorFusion project running on the target automobile platform.

**ML Engineer Intern** **May 2022 – Jul. 2022**  
*ETIS lab (CNRS UMR 8051)* *Cergy, France*

- Applied MPDist to construct distance matrices on linguistic burst time series data, achieving a DBCV score of **0.73** using PCA, UMAP, and HDBSCAN — powered by the Stumpy library.

**Junior Data Scientist** **Mar. 2017 – Sep. 2019**  
*PI Marketing* *Tangier, Morocco*

- Deployed ML ensemble models for customer segmentation and predictive lead scoring to optimize marketing campaign performance and personalize outreach using Pandas, Scikit-learn, SQL & Tableau.

**Android Developer** **Feb. 2016 – Jan. 2017**  
*Smart Source* *Tangier, Morocco*

- Developed an Android app enhancing operational efficiency for clients using Android Studio & RESTful API.

## EDUCATION

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**Data ScienceTech Institute** **Sep. 2023 – Sep. 2025**  
*Master in Data Science & Artificial Intelligence* *Paris, France*  
GPA: 4.0

**Université Sorbonne Paris Nord** **Sep. 2021 – Jul. 2023**  
*Bachelor in Computer Science* *Villetaneuse, France*  
GPA: 3.7

**Seconda Università di Napoli** **Sep. 2020 – Jul. 2023**  
*Bachelor in Statistics & Data Analytics* *Caserta, Italy*  
GPA: 3.7

## PROJECTS

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<https://aljalanjimohamed.dev/index.html#projects>

## CERTIFICATIONS

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- AWS Certified Solutions Architect
- Deep Learning Specialization — DeepLearning.AI
- Neo4j
- Discrete Optimization — Univ. of Melbourne

## TECHNICAL SKILLS

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**Programming Languages:** Python, R, SQL, C/C++, Kotlin, NetLogo

**ML & Deep Learning:** PyTorch, Scikit-Learn, UnslothAI, Fine-tuning, Distillation

**LLMOPs & Agentic AI:** LangChain, Pydantic AI, DSPy, vLLM, RAG, NiceGUI chatbots, Ragas, DeepTruth, Langfuse, Guardrails

**MLOps & DevOps:** MLflow, DVC, Docker, GitHub CI/CD, FastAPI, REST APIs

**Cloud & Deployment:** AWS (SageMaker, ECS, Bedrock)

**Data & Databases:** PySpark, Pandas, NumPy, PostgreSQL, Neo4j

**Tools:** Git, VS Code

## INTERESTS & LANGUAGES

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**Languages:** English (native), Arabic (native), French (advanced), Italian (beginner)

**Interests:** Bluegrass & Country music, Canoeing, Hiking, Mountain Biking