Mohamed AL JALANJI

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EDUCATION

Data ScienceTech Institute **Sep. 2025**
Applied MSc in Data Science & Artificial Intelligence (Expected) – **Current GPA: 3.8** *Paris, France*

Université Sorbonne Paris Nord **Jul. 2023**
Bachelor's in Computer Science – **Double Degree** *Villetaneuse, France*

Seconda Università degli Studi di Napoli **Sep. 2023**
Bachelor's in Statistics & Data Analytics – **GPA: 3.7** *Caserta, Italy*

WORK EXPERIENCE

AI Engineer Apprentice **Sep. 2023 – Now**
APTIV *Vannes, France*

- Optimally transformed dataflow graphs to Logical Execution Time (LET) design for automobile projects, ensuring minimal schedule table length and maximum parallelisms over K cores.
  - **Stack:** Constraint Programming Z3; Python
- Fine-tuned small LLM model for natural text to code translation of a local automobile tool & developed evaluation metrics and parsers.
  - **Stack:** Python (Argparse, Pytorch, Transformers), Docker
  - **Key results:** Cross-validation-based accuracy: **91%**
- Developed Cloner tool for systematic duplication of AUTOSAR Classic elements for optimizing parameters for lower probability of preemption and time-execution errors.
  - **Stack:** Python (lxml)

Machine Learning Research Intern **May 2022 – Jul. 2022**
ETIS lab (CNRS UMR 8051) *Cergy, France*

- Developed a subsequence clustering approach for linguistic data & researched the most suitable validation metrics.

Android Developer **May 2017 – Sep. 2019**
Freelance *Tetouan, Morocco*

- Developed Android games & applications for clients using Android Studio with Java.

PROJECTS

- **Credit Card Detection:** Developed a complete pipeline for a real-time model to detect credit card fraud.
- **Motif-based Clustering:** Developed a time series subsequence clustering method for sales data based on chain & common motifs, outperforming whole time series clustering on two validation metrics: DBCV & Dunn.
- **Two Attachment Styles:** Reproduced a classical attachment theory study with 100% accuracy in R.

CERTIFICATIONS

- **AWS Certified Solutions Architect (Expected by Sep. 2025)**
- **Neo4j**
- **Deep Learning Specialization** – DeepLearning.ai

TECHNICAL SKILLS & INTERESTS

- **Programming Languages:** Python, R, SQL, Cypher, C/C++, Java
- **Libraries:** Scikit-Learn, Pytorch, Keras, Tesnorflow, Plotly, Dash, PySpark, Pandas, NumPy, Matplotlib
- **Misc. Tools:** Git, Tableau, Docker, GitHub CI, VS Code, SQLite
- **Languages:** English (Proficient), French (Intermediate), Arabic (Native)
- **Interests:** Bluegrass music, Kayaking, Hiking, Mountain Biking