Mohamed AL JALANJI

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EDUCATION

Data ScienceTech Institute — **Sep. 2023 – Now**
Applied MSc in Data Science & Artificial Intelligence (Expected) – GPA: **3.8/4.0** — *Paris, France*

Université Sorbonne Paris Nord — **Sep. 2021 – Jul. 2023**
Bachelor in Computer Science – **Joint Dual Degree** — *Villetaneuse, France*

Seconda Università di Napoli — **Sep. 2020 – Jul. 2023**
Bachelor in Statistics & Data Analytics – GPA: **3.7/4.0** — *Caserta, Italy*

Tomsk State University — **Sep. 2019 – Jul. 2020**
Bachelor in Software Engineering (1st year) – GPA: **3.8/4.0** — *Tomsk, Russia*

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 design length and maximum parallelisms over K cores, using Constraint Programming (Z3).
- Fine-tuned small LLM model for natural text to code translation of a local automobile tool & developed evaluation metrics and parsers. Results obtained using 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.

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 2016 – Sep. 2019**
Freelance — *Tetouan, Morocco*

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

PROJECTS (Selected)

- **Real-time Detection:** Developed a complete pipeline for a real-time model to detect anomalies in data.
- **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 language.
- **Text2Cmd:** Fine-tuned a model, from data acquisition to evaluation metrics developments, with 91% accuracy.

CERTIFICATIONS

- **AWS Certified Solutions Architect** (Sep. 2025)
- **Neo4j**
- **Deep Learning Specialization** – DeepLearning.ai
- **Machine Learning Specialization** – Stanford Univ.
- **Discrete Optimization** – Melbourne Univ.
- **Data Structures** – UC San Diego
- **Algorithmic Design** – UC San Diego
- **Mathematical Thinking** – UC San Diego
- **Introduction to Probability** – Harvard Univ.
- **Linear Algebra Frontiers** – Texas Univ.

TECHNICAL SKILLS & INTERESTS

- **Programming Languages:** Python, R, SQL, Cypher, C/C++, Java, NetLogo
- **Libraries:** Scikit-Learn, Pytorch, Keras, Tesnorflow, Plotly, PySpark, Pandas, NumPy, Matplotlib, lxml, Argparse
- **MLOps:** Docker, DVC, AWS ECS, FastAPI
- **Miscellaneous Tools:** Git, GitHub Action, Tableau, VS Code, SQLite, PostgeSQL
- **Languages:** English (Proficient), French (Intermediate), Arabic (Native)
- **Interests:** Bluegrass music, Kayaking, Hiking, Mountain Biking