

Mohamed AL JALANJI

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EDUCATION

Data ScienceTech Institute

Master in Data Science & Artificial Intelligence – GPA: 3.8/4.0

Sep. 2023 – Now

Paris, France

Université Sorbonne Paris Nord

Bachelor in Computer Science – Joint Dual Degree

Sep. 2021 – Jul. 2023

Villetaneuse, France

Seconda Università di Napoli

Bachelor in Statistics & Data Analytics – GPA: 3.7/4.0

Sep. 2020 – Jul. 2023

Caserta, Italy

Tomsk State University

Bachelor in Software Engineering (1st year) – GPA: 3.8/4.0

Sep. 2019 – Jul. 2020

Tomsk, Russia

WORK EXPERIENCE

AI Engineer Apprentice

APTIV

Sep. 2023 – Now

Vannes, France

- Optimally transformed dataflow graphs to Logical Execution Time (LET) design for automobile projects using Constraint Programming (Z3), ensuring the reduction of theoretical LET design manual labor by almost **70%**.
- Fine-tuned the LLM model CodeT5 using Pytorch to translate text to commands of a local automobile tool & developed evaluation metrics and parsers needed. Accuracy obtained: **91%**.
- Developed Cloner tool for systematic duplication of AUTOSAR Classic elements for applications targeting the LET intervals optimization for lower probability of preemption and time-execution errors.

Machine Learning Research Intern

ETIS lab (CNRS UMR 8051)

May 2022 – Jul. 2022

Cergy, France

- Worked on modelling linguistic burst data into time series for clustering applications. Matrix Profile (MP) method was applied to such models and good clustering results were obtained.

Android Developer

Freelance

May 2016 – Sep. 2019

Tetouan, Morocco

- Developed Android applications for clients using Android Studio with Java. Some apps achieved high success on Google Play Store.

PROJECTS (Complete List: github.com/jalanjii)

- **Real-time Detection:** A complete pipeline for a trained model & real-time data to detect anomalies.
- **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.

CERTIFICATIONS

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

TECHNICAL SKILLS & INTERESTS

- **Programming Languages:** Python, R, SQL, Cypher, C/C++, Java, NetLogo
- **Libraries:** Scikit-Learn, Pytorch, Transformers, Keras, Tesnorflow, PySpark, Pandas, NumPy, UnslothAI
- **Visualization tools:** Shiny, Plotly, Folium, Matplotlib
- **MLOps:** Docker, DVC, AWS ECS, FastAPI, Rest API, MLflow
- **Miscellaneous Tools:** Git, GitHub Action CI/CD, Tableau, VSCode, SQLite, PostgreSQL
- **Languages:** English (Proficient), French (Intermediate), Arabic (Native)
- **Interests:** Bluegrass music, Kayaking, Hiking, Mountain Biking