# Mohamed AL JALANJI

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## EDUCATION

**Data ScienceTech Institute** — **Sep. 2023 – Now**
*Master in Data Science & Artificial Intelligence* – 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*

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

- Developed Android applications for clients using Android Studio with Java. Some of these applications achieved good 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.
- **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, Transformers, Keras, Tesnorflow, PySpark, Pandas, NumPy, Matplotlib.
- **MLOps:** Docker, DVC, AWS ECS, FastAPI
- **Miscellaneous Tools:** Git, GitHub CI/CD, Tableau, VS Code, SQLite, PostgeSQL
- **Languages:** English (Proficient), French (Intermediate), Arabic (Native)
- **Interests:** Bluegrass music, Kayaking, Hiking, Mountain Biking