

Mohamed AL JALANJI

aljalanji@gmail.com | <https://aljalanjimohamed.dev> | +33659937888 | Vannes - France

EDUCATION

Data ScienceTech Institute <i>Applied MSc in Data Science & Artificial Intelligence (Expected) – GPA: 3.8/4.0</i>	Sep. 2023 – Now <i>Paris, France</i>
Université Sorbonne Paris Nord <i>Bachelor in Computer Science – Joint Dual Degree</i>	Sep. 2021 – Jul. 2023 <i>Villetaneuse, France</i>
Seconda Università di Napoli <i>Bachelor in Statistics & Data Analytics – GPA: 3.7/4.0</i>	Sep. 2020 – Jul. 2023 <i>Caserta, Italy</i>
Tomsk State University <i>Bachelor in Software Engineering (1st year) – GPA: 3.8/4.0</i>	Sep. 2019 – Jul. 2020 <i>Tomsk, Russia</i>

WORK EXPERIENCE

AI Engineer Apprentice <i>APTIV</i>	Sep. 2023 – Now <i>Vannes, France</i>
<ul style="list-style-type: none">• 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 <i>ETIS lab (CNRS UMR 8051)</i>	May 2022 – Jul. 2022 <i>Cergy, France</i>
<ul style="list-style-type: none">• Developed a subsequence clustering approach for linguistic data & researched the most suitable validation metrics.	
Android Developer <i>Freelance</i>	May 2016 – Sep. 2019 <i>Tetouan, Morocco</i>
<ul style="list-style-type: none">• 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) | • Data Structures – UC San Diego |
| • Neo4j | • Algorithmic Design – UC San Diego |
| • Deep Learning Specialization – DeepLearning.ai | • Mathematical Thinking – UC San Diego |
| • Machine Learning Specialization – Stanford Univ. | • Introduction to Probability – Harvard Univ. |
| • Discrete Optimization – Melbourne Univ. | • Linear Algebra Frontiers – Texas Univ. |
| • Functional Programming – Washington Univ. | • Introduction to Logic – Stanford 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 (Fluent), French (Intermediate), Arabic (Native)
- **Interests:** Bluegrass music, Kayaking, Hiking, Mountain Biking