

AIT LAMOUDEN MAJDA

BIG DATA AND CLOUD COMPUTING ENGINEERING STUDENT

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SUMMARY

Big Data and Cloud Computing student with strong math and CS skills. Experienced in real-time data streaming and web platforms. Quick learner and passionate about building scalable, modern solutions.

PROJECTS

Real-Time IoT Data Streaming and Dashboard

- Apache Kafka, Docker, Python, Node.js, WebSocket, Angular
- Built a real-time IoT data pipeline with Apache Kafka using Python producer and Node.js consumer.
 - Developed an Angular dashboard to visualize live sensor data and perform basic analytics.
 - Deployed Kafka with Docker for scalable, fault-tolerant streaming architecture.

Animal Adoption Website Design And Developing

- HTML, CSS, Typescript, React, Figma.
- Designed a fully responsive website prototype..
 - Developed the frontend of the website.

Autonomous Car Driven by Artificial Intelligence

- . Python, CARLA, YOLOv8, Deep Learning, TensorFlow, Keras
- Simulated a self-driving vehicle capable of navigating without human intervention.
 - Integrated object detection and decision-making.
 - Used the CARLA simulator for training and testing

Real Estate Price Prediction with Genetic Algorithm

- Python, Pandas, NumPy, Scikit-learn
- Preprocessed housing data (missing values, encoding, scaling).
 - Designed a custom fitness function and implemented a genetic algorithm for model optimization.
 - Tracked fitness evolution and visualized MAE over generations.

EDUCATION

Engineering Program – Computer Science: Big Data & Cloud Computing	Sep 2024 - Sep 2027
Higher Normal School of Technical Education (Currently enrolled)	
Bachelor’s Degree in Mathematical and Computer Sciences	Sep 2021 - Sep 2024
Faculty of Sciences, Rabat - Graduated with Honors	
High School Diploma in Physical Science	Sep 2020 - Sep 2021
Lycée Qualifiant Al Abbas Miftah - Graduated with High Honors	

ACTIVITIES

Member of JLM (Jeunes Leaders Marocains) Member of GDG (Google Developer Groups)

SKILLS

- Languages:** English, French, Arabic.
- Web Development:** Dynamic websites, product management systems, interactive UI .
- Artificial Intelligence:** Deep Learning, Reinforcement Learning (DQN), CNNs, object detection with YOLO