

Nadir Kichou

Junior Data Scientist & Full Stack Developer



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Junior Data Scientist and Fullstack Developer. I spend my free time working on personal projects, I am a hard worker, I love learning new things and I can learn and adapt fast. I am experienced in AI, ML and Software (Web and Embedded). My GitHub can attest of that !

I'm confident that a conversation will show you far more than a CV ever could. Give me a chance (interview), and I'll make sure you remember me.

EXPERIENCE

- **Data Science Research Intern - Digital Twin, VLA & RL**04/2026 – 10/2026
Exotec R&D
Built a digital twin for an industrial picking robot and worked on reinforcement learning, VLA and VLMS based agents to improve the robot.
 - Developed a physics-based robot arm simulation environment using Isaac Sim
 - Designed and trained an RL-based controller for robotic arm manipulation tasks
- **Data Science Research Intern - RL for Self Driving Cars**10/2025 – 04/2026
Cristal Lab
Worked on Self Driving Cars and implemented an automatic steering system able to avoid static and dynamic obstacles, using a custom light simulator, Carla Simulation and Reinforcement Learning.
 - Designed and trained a reinforcement learning based lateral controller for path following and obstacle avoidance
 - Built a full evaluation pipeline in the CARLA simulator with realistic traffic scenarios
- **Data Science Research Intern - Vision & Machine Learning**04/2025 – 08/2025
IMT Nord Europe
Worked on human motion data with VAEs, Vision-Transformers and LLMs; developed a model capable of moment retrieval in motions from a set of text prompts.
 - Prepared and processed 3D gesture datasets for multimodal training
 - Used PyTorch Lightning, Hydra and MLflow for reproducible experiment tracking
- **Data Science Research Intern - Vision & Machine Learning**10/2024 – 04/2025
Cristal Lab
Developed a model for (bouldering) video segmentation using CNNs, Vision-Transformers, Video Encoders, 3D CNNs and LSTMs.
 - Engineered a temporal action segmentation pipeline enabling precise identification of climbing sequences
 - Released code and pre-trained models for training and inference
- **CS Tutor**09/2024 – 12/2024
Université de Lille
Taught Python to first-year computer science students, guiding them and assisting in solving their exercises.
- **Full-stack Developer**07/2022 – Now
Myself
On my free time I work mostly on web (nodejs, java, LLMs, agents, RAGs, etc) and embedded related projects, you can visit my github to discover some of them. I

EDUCATION

- Master in Data Science**2024 – 2026
École Centrale Lille
Lille, France
- Bachelor of Mathematics and Computer Science**2021 – 2024
Ahmed Ben Bella University
Oran, Algeria — Top of the Class in Year 1

SKILLS

Programming	C/C++, Python, Go, Java, TypeScript, Next.js, React Native, Supabase, REST / WebSocket APIs, Docker, Git, Linux / Shell, Make, HPC (MPI, CUDA)
ML & Data	PyTorch, PyTorch Lightning, TensorFlow (basics), Hydra, Hugging Face, Transformers, LLMs, LangChain, RAGs, MLflow, Isaac Sim, Scikit-learn, Pandas, NumPy, Apache Spark, Data Visualization (Matplotlib, Seaborn, Power BI)
Databases	SQL (PostgreSQL, MySQL), NoSQL (MongoDB, Redis), Graph Databases (Neo4j), Data Pipelines
Languages	French (Fluent), English (C1), Arabic (Fluent)