

AISSAOUI ISMAIL

ARTIFICIAL INTELLIGENCE & DATA SCIENCE ENGINEER

CONTACT

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SKILLS

Programming Languages:

- Python, TypeScript, JavaScript, Java, SQL

Web Development:

- Frontend: Next.js, React, HTML5, TailwindCSS
- Backend: FastAPI

Data Science & Machine Learning:

- Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras
- Libraries: Pandas, NumPy, Scipy, Matplotlib, Plotly, OpenCV
- MLOps: MLflow
- Techniques: Transformers, BERT, GANs, CNN, RNN, LSTM, XGBoost, Random Forest

Big Data Technologies:

- Apache Spark, Hadoop, Kafka, Airflow

Databases:

- SQL: MySQL, MariaDB, SQLite
- NoSQL: MongoDB, Cassandra, Neo4j

Developer Tools: Docker, Git, GitHub

Desktop Development: PyQt

LANGUAGES

- Arabic (native)
- English (Fluent)
- French (Fluent)



PROFILE

Highly motivated final-year AI and Data Science student (Ingénieur d'État) with a unique combination of deep AI knowledge and practical, end-to-end software engineering skills. Possesses a strong command of Machine Learning, Deep Learning, and NLP, demonstrated by building foundational transformer models (like BERT, GPT, and RAG) from the ground up. Skilled in applying this core AI expertise to build and deploy robust applications, utilizing advanced full-stack web (React, Next.js, FastAPI), desktop (PyQt), and database (SQL/NoSQL) technologies. Eager to secure a challenging role as an AI Engineer or Full-Stack ML Engineer where I can contribute both my model development and software architecture skills.



PROJECTS

Geo RAG | Map-based RAG Demo 2025

- Interactive map application that generates intelligent summaries about geographic locations
- Retrieves relevant information and produces context-aware answers displayed on an interactive map

AI Traffic Camera System 2025

- Comprehensive traffic monitoring system that detects, tracks, and counts vehicles while estimating their speed
- Includes license plate recognition and traffic flow analysis capabilities

BERT (Encoder-only) 2025

- implemented a language understanding model from scratch for analyzing sentiment in text

Mini-GPT (Decoder-only) 2025

- Built a text generation model from scratch that learns writing patterns at the character level
- Trained on Shakespeare's works to generate creative text in similar style

Career Connect | AI Job Recommendation Platform 2025

- Dual-purpose recruitment platform connecting job seekers with opportunities and helping recruiters find qualified candidates
- Automatically analyzes resumes and job descriptions to provide intelligent matching and ranked recommendations

Hybrid POS & E-commerce System 2025

- Desktop point-of-sale system that synchronizes with multiple online stores in real-time
- Works seamlessly offline and automatically syncs when internet connection is restored

Recognizini | Real-Time Facial Recognition System 2025

- Web application that identifies people from images and videos in real-time
- Continuously learns and improves by incorporating user feedback on new faces

Safety Equipment Detection with YOLOv8 2025

- Real-time monitoring system that detects whether workers are wearing required safety equipment
- Provides instant alerts when safety helmets or reflective jackets are missing

Hadj Management System 2024

- Web platform for managing all aspects of Hajj pilgrim logistics and travel arrangements
- Coordinates group selection, flight bookings, hotel accommodations, and medical scheduling



EDUCATION

High School of Computer Science (ESI-SBA) 2021 - 2026 Sidi Bel Abbès, Algeria

- Master of Engineering in Computer Science (Ingénieur d'État) | 2021 - 2026
- Specialization: Artificial Intelligence & Data Science