

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