

ALY GUINGA

Big Data & Artificial Intelligence Engineer (BAC + 5)

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PROFILE

Data Science Engineer student passionate about Artificial Intelligence and Machine Learning, with expertise in developing intelligent solutions (LLMs, NLP, ML pipelines). Hands-on experience in end-to-end AI project design and deployment, combining strong technical skills (Python, SkLearn, TensorFlow, AWS) and rigorous analytical mindset. Driven by technological innovation and ready to tackle complex challenges within dynamic teams.

EDUCATION

Engineering Degree <i>ENSA Tetouan</i> — Specialization in Data Science, Big Data, and Artificial Intelligence	2023 - Present
Integrated Preparatory Cycle <i>ENSA Tetouan</i> — Scientific and technical training	2021 - 2023
First Year DUT <i>EST Salé</i> — Civil Engineering Specialization	2020 - 2021
High School Diploma in Physical Sciences <i>Ibn El Athir High School, Arbaoua</i> — Honors	2019 - 2020

PROFESSIONAL EXPERIENCE

Internship PFA — AI Chatbot Development <i>ADD (Digital Development Agency) Rabat</i>	July - August 2025
<ul style="list-style-type: none">• Conceptual study and architecture of an intelligent chatbot• Implementation with LLMs (HuggingFace, RAG, Transformers, Qdrant)• Development of an interactive user interface with HTML and JavaScript	

TECHNICAL PROJECTS

Laptop Search Engine

- Technologies:** Python, Qdrant, Jina, Streamlit, Web Scraping
- Built semantic search engine using Qdrant vector database
 - Implemented embedding models (Sentence Transformers) for converting product specifications to vectors
 - Optimized vector fro a Better Laptop filtering performance

Football Transfers and Rumors Analysis

- Technologies:** Python, Airflow, MongoDB, Power BI, Docker
- Development of an automated ETL pipeline to extract transfer data from the web
 - Workflow orchestration with Apache Airflow for scheduled task execution
 - Data storage and management in MongoDB Atlas
 - Creation of interactive Power BI dashboards to visualize market trends

Paris 2024 Olympic Games Interactive Dashboard

- Technologies:** Python, Pandas, Streamlit, Web Scraping
- Automated extraction of Olympic performance data via web scraping
 - Data cleaning and transformation (handling missing values, normalization)
 - Creation of dynamic visualizations to track medals and records

Chic-illo — AI Assistant for DIY (Do It Yourself) Projects and Recycling

- Technologies:** HuggingFace, LangChain, RAG, Streamlit, Chroma
- Implementation of RAG (Retrieval Augmented Generation) for contextual responses
 - Creation of a vector knowledge base with Chroma
 - Intuitive user interface enabling transformation of objects into creative projects

Sentiment Analysis on Product Reviews (Industrial Data Processing)

- Technologies:** Python, Hadoop HDFS, Apache Spark, NLP
- Collection and storage of customer review data in Hadoop HDFS
 - Distributed data processing with Apache Spark for large-scale analysis
 - Application of NLP techniques for sentiment analysis (positive, negative)

TECHNICAL SKILLS

Programming Languages

Python, R, SQL, HTML

Data Science & ML

Pandas, NumPy, Scikit-Learn, TensorFlow, PyTorch

Visualization & BI

Power BI, Tableau, Streamlit, Matplotlib, Seaborn

Big Data & Cloud

Docker, Airflow, AWS, HDFS, Hive, Linux, Git, GitHub n8n

Databases

MySQL, PostgreSQL, MongoDB, Qdrant, Milvus, Chroma

LLMs & AI

HuggingFace, Transformers, RAG, LangChain, Jina, APIs

ACTIVITIES & CERTIFICATIONS

Community Involvement, Tétouan

Member — AIGEEKS Club (2024)
Organization of tech events, SQL mentorship, Project Manager

Volunteer Teacher — Al-Amal Association (2024 - 2025)
Teaching Arabic to underprivileged children

Gardening Project — Bosafou Children’s Home (04/2022)
Collaborated with a team on garden maintenance and landscaping for an orphanage association

Languages

Arabic (Native), French (Fluent), English (Fluent)

Certifications

- AI Agents Fundamentals (HuggingFace)
- Intro to LLMs (356datascience)
- Machine Learning (Kaggle)
- Cloud Computing (DataCamp)
- Bioinformatics (FutureLearn)

Soft Skills

Teamwork, Communication, Public Speaking, Project Manager