Anis Guechtouli

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PROFILE

Data Scientist with hands-on experience building **LLM-based chatbots**, vision pipelines, and large-scale ML models. Delivered an **HR assistant at Djezzy** using **LangChain**, **RAG pipelines**, and fine-tuned models via **Unsloth**. Also developed a **PySpark**-based xG model on **12M+ rows** and built vision projects with **OpenCV**.

EXPERIENCE

Data Analyst Intern – CAAR 🔗   02/2023 – 07/2023 | Algiers, Algeria
- Built a **Streamlit** dashboard for a car insurance agency, enabling exploration of **sales**, **sinistres**, and **client KPIs**
- Queried structured data from **Oracle DB** using **SQL** to power visual analytics and trend analysis
- Added **dynamic filters** (time, category, distribution) and password protection to support secured, interactive exploration
- Enabled **analysis of risk patterns** such as accident frequency by driver age, supporting more informed client segmentation

Data Scientist Intern – Djezzy 🔗   11/2024 – 06/2025 | Algiers, Algeria
- Developed an internal **HR chatbot** that handled **300+ recurring employee queries**, showing strong automation potential
- Designed and implemented a **full RAG pipeline** using Flask API and React, including document preprocessing, chunking, and synthetic Q&A generation stored in ChromaDB
- **Fine-tuned** Qwen2.5 3B, Qwen3 4B, and LLaMA3.2 3B using **Unsloth** to improve response accuracy and latency

Business Analyst – SIG Service 🔗   06/2025 – 08/2025 | Algiers, Algeria
- Supporting **two** large-scale **data migration** projects (**~100GB** each) from Odoo 8 to Odoo 13 using **Apache NiFi**
- Debugging and maintaining NiFi flows for high-volume data pipelines
- Analyzing schemas, remapping fields, and ensuring consistency across **PostgreSQL** sources
- Authored **full technical documentation** for handover and audit readiness, streamlining collaboration with engineering and business teams

EDUCATION

Bachelor's Degree in Computer Science,   09/2021 – 07/2023 | Algiers, Algeria
University Of Algiers 1 - Benyoucef Benkhedda 🔗

Master's Degree in Data Science and Analytics,   09/2023 – 06/2025 | Algiers, Algeria
University Of Algiers 1 - Benyoucef Benkhedda 🔗

PROJECTS

Iris Recognition System
- Designed a biometric system for iris recognition using **SIFT** and **OpenCV**.
- Built a complete pipeline: preprocessing, feature extraction, visual matching.
- Deployed a **Streamlit** interface for image upload and individual identification.

Optimization Application – Knapsack Problem 🔗
- Modeled a constrained optimization problem using **mixed-integer programming** (GEKKO).
- Developed an interactive **Streamlit** interface to let users test different allocation scenarios.
- Highlighted decision logic and visualization in resource-constrained settings.

Exploratory Data Analysis in Retail 🔗
- Performed **exploratory analysis** on a retail dataset of **9,994 sales**, identifying key issues such as **unprofitable products** and **excessive discounts** in specific states.
- Built **visualizations**, a **dashboard**, and a detailed **report** to communicate findings and guide strategic decisions.

Expected Goals (xG) Model 🔗
- Collected and preprocessed **12 million** lines of data using **PySpark** for scalable data cleaning and transformation
- Engineered spatial and contextual features including **shot distance, angle, footedness**
- Trained a **logistic regression model** achieving $R^2 = 0.83$ and a **~98% match** with StatsBomb's official xG values

SKILLS

- **Languages** : Arabic (Native), English (Advanced), French (Intermediate)
- **Programming** : SQL, Git, Python (PySpark, Pandas, Numpy, Matplotlib, Plotly, Streamlit)
- **AI/ML Tools:** LangChain, Unsloth, ChromaDB, OpenCV, Scikit-learn
- **Data Engineering**: Apache NiFi, Apache Spark, PostgreSQL, Oracle, SQLite
- **Visualization Tools:** Excel, PowerBI, Tableau
- **Soft Skills:** Technical writing, Documentation, Presentation (PowerPoint, Canva, Markdown)