RASLEN GUESMI

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   My Portfolio

Professionel Summary

Results-oriented Data Scientist & AI Engineer **with 1+ year** of **experience** in machine learning, data engineering, and AI solutions. **Skilled** in ETL pipelines, cloud-based data processing, and scalable AI deployments. **Strong expertise** in LLMs, NLP, and predictive modeling, with hands-on experience in Big Data technologies (Spark, Airflow, BigQuery). **Passionate** about building data-driven AI solutions for business optimization.

Technical Skills

- **ETL & Data Pipelines:** Apache Airflow, PySpark, BigQuery, SQL (MySQL, PostgreSQL)
- **Data Visualization**: Excel, Tableau, Power BI
- **Data Warehousing:** MongoDB, ChromaDB, Pinecone, Data Modeling
- **ML/DL frameworks:** tensorflow, pytorch, keras, scikit-learn

- **NLP/LLMs:** RAG, OLLAMA, Huggging Face, Fine-tuning, FLAN-T5, Llama3, Mistral
- **Software Engineering:** Strong Python(OOP), Flask, Fast API, Streamlit, React(Basic)
- **Web Scraping:** Selenium, BeautifulSoup
- **Business Domains:** Marketing Analytics, Financial Reporting, Sports Analytics

Work Experience

Data Science Engineer – 4InaTechnology (Energy Sector)

📍 Manouba, Tunisia | 📅 Feb 2024 - Aug 2024

- Built **time-series forecasting models (LSTM, ARIMA)** for energy consumption prediction.
- Developed **AI-driven chatbots & dashboards** using **Flask & Flutter** for real-time analytics.
- Applied **CNN models** for image classification in energy monitoring systems.

Machine Learning Intern – Innov-Sys

📍 Tunis, Tunisia | 📅 Feb 2023 - Aug 2023

- Developed a **fitness e-coaching app** using **Kivy & MediaPipe (pose estimation)**.
- Optimized user experience with **LSTM-based motion analysis**.

Projects

Scalable RAG Pipeline for PDF QA *(AI & Data Engineering | Jan 2025)*

- Built a **retrieval-augmented generation (RAG)** system using **FLAN-T5** and **Pinecone** for efficient semantic search across PDF documents.

- Optimized **batch processing pipelines** to handle large-scale document ingestion and embedding generation.

- *Tech Stack:* Python, SentenceTransformers, Pinecone, Git LFS

AI-Driven Football Player Performance Analysis *(Big Data & AI | Nov 2024)*

- Designed an **ETL pipeline** (Airflow) to automate ingestion of Bundesliga and FBref data into **BigQuery**.

- Developed AI analytics using **Expected Goals (xG)**, market value KPIs, and **Mistral LLM** for player scouting insights.
- Deployed an interactive **Streamlit dashboard** for real-time performance visualization.
- *Tech Stack:* Python, Airflow, BigQuery, Mistral LLM, Pandas

Sentiment & Toxicity Analysis *(NLP + Data Engineering | Sept 2024)*

- Scraped social media data using **Selenium** and stored it in **MongoDB** for unstructured text analysis.
- Deployed a **FastAPI** backend with Docker for real-time **sentiment/toxicity classification** using Hugging Face NLP models.
- *Tech Stack:* Python, Hugging Face, FastAPI, Docker, MongoDB

Education

🎓 **Master of Data Science** | University of Bizerte | 2021–2023
🎓 **Bachelor of Applied Mathematics** | University of Bizerte | 2018–2021

Certifications

- INTRODUCTION OF AI – UNIVERSITY OF HELSINKI
- PwC SWITZERLAND - POWER BI JOB SIMULATION – FORAGE

Languages

- **English**: Fluent | **German**: Intermediate (B1)
- **French**: Fluent | **Arabic**: Native