

# RASLEN GUESMI



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## Professional 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

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| • <b>ETL &amp; Data Pipelines:</b> Apache Airflow, PySpark, BigQuery, SQL (MySQL, PostgreSQL) | • <b>ML/DL Frameworks:</b> tensorflow, pytorch, scikit-learn, Keras                          |
| • <b>Data Visualization:</b> Excel, Tableau, Power BI   | • <b>NLP &amp; LLMs:</b> FLAN-T5, Mistral, RAG, Fine-tuning                                  |
| • <b>Big Data &amp; Cloud:</b> Docker, Git  | • <b>Web Scraping:</b> Selenium, BeautifulSoup   |
| • <b>Data Warehousing:</b> MongoDB, Pinecone (Vector DB), Data Modeling                       | • <b>Software Engineering:</b> Strong Python (OOP), FastAPI, Flask, RESTful APIs, streamlit. |

## 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

### 1. Scalable RAG Pipeline for PDF QA (AI & Data Engineering) ---Jan 2025

- Built a **vector search system** using **FLAN-T5 + Pinecone** for **PDF document retrieval**.
- Optimized **batch processing** for large-scale document handling.
- **Tech Stack:** Python, SentenceTransformers, Pinecone, Git LFS

### 2. AI-Driven Football Player Performance Analysis (Big Data & AI) ---Nov 2024

- **ETL Pipeline:** Automated data ingestion from **Bundesliga & FBref** using **Airflow**, stored in **BigQuery**.
- **AI Analytics:** Applied **xG, market value KPIs** and **Mistral LLM** for player scouting.
- **Deployment:** Interactive **Streamlit dashboard** for real-time insights.

- **Tech Stack:** Python, Airflow, BigQuery, Mistral LLM, Pandas

### 3. Sentiment & Toxicity Analysis (NLP + Data Engineering) ---Sept 2024

- Scraped **social media data** (Selenium) → stored in **MongoDB**.
- Deployed a **FastAPI + Docker** backend for **real-time sentiment/toxicity classification**.
- **Tech Stack:** Python, Hugging Face (NLP models), FastAPI, Docker

### Education

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🎓 **Master of Data Science** | University of Bizerte | 2021–2023

🎓 **Bachelor of Applied Mathematics** | University of Bizerte | 2018–2021

### Certifications

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- **INTRODUCTION OF AI – UNIVERSITY OF HELSINKI**
- **WEB SCRAPING IN PYTHON – DATACAMP**

### Languages

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