

RASLEN GUESMI

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🌐 Hammamet, 8056, Tunisia

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Professional Summary

Results-oriented Data Scientist & AI Engineer **with** 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, Streamlit
- **Data Warehousing:** MongoDB, ChromaDB, Pinecone, Data Modeling
- **ML/DL frameworks:** tensorflow, pytorch, keras, scikit-learn
- **NLP/LLMs:** RAG, OLLAMA, Hugging Face, Fine-tuning, FLAN-T5, Llama3, Mistral
- **Software Engineering:** Python(OOP), CI/CD, Docker, Flask, FastAPI
- **Web Scraping:** Selenium, BeautifulSoup
- **Business Domains:** Marketing Analytics, Financial Reporting, Sports Analytics

Work Experience

Freelance AI/Data Engineer

📍 Remote | 📅 Jan 2025 – Present

- Developed a **CV Extractor App** using **Llama3, Mistral, and Phi**, leveraging **embeddings** and Streamlit for UI. Evaluated model performance using precision/recall metrics against ground truth.
- Built a **Research RAG Application** for PDF retrieval (papers/text), enabling summarization, translation, and Q&A using **Llama3**. Deployed with Flask/JS and evaluated with **ROUGE metrics**.
- Designed and delivered **online courses** on Probability/Statistics (Python) and Web Scraping for 10+ students.

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

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

- Designed an **ETL pipeline (Airflow)** to automate ingestion of Bundesliga/FBref data into BigQuery.
- Developed AI analytics using **xG, market value KPIs, and Mistral LLM** for scouting insights.
- **Tech Stack:** Python, Airflow, BigQuery, Mistral LLM, Pandas

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

- Scraped social media data using **Selenium** and stored in **MongoDB**.
- Deployed a **FastAPI backend** with Docker for real-time classification using Hugging Face 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**
- **FACHKRAFTE PROJECT : INETRCULTUREL SOFT SKILLS (LEADERSHIP,CRITICAL THINKING, TIME MANAGEMENT)**
- **INTRODUCTION TO MLFLOW – DATACAMP**

Languages

- **English:** Fluent EFSET Certification C1 | **German:** Upper Intermediate B2
- **French:** Fluent | **Arabic:** Native