RASLEN GUESMI

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GitHub | LinkedIn My Portfolio



Professionel 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, Huggging Face, Finetuning, 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

Al Engineer - PredictiveLabs (Financial Sector)

Remote | ■ Jun 2025 – Present

- Enhanced data quality using imputation techniques and data versioning; improved model accuracy by 5%.
 Utilized yfinance for feature engineering and selected top features via Random Forest.
- Benchmarked ML models by event type (e.g., earnings, partnerships, clinical); integrated LLMs with RAG,
 boosting prediction accuracy to 85%.
- Used MLflow for experiment tracking, model versioning, and performance comparison throughout the training pipeline.
- Built interactive dashboards with Streamlit and deployed prediction APIs using FastAPI for real-time access.
- Applied backtesting frameworks to evaluate AI-driven trading bot performance across historical financial data.

Freelance AI/Data Engineer

Remote | Jan 2025 – Present

- Built a Research RAG Application for PDF-based retrieval (papers/text), enabling summarization, translation, and question answering using LLaMA 3; deployed via Streamlit, with ROUGE-based performance evaluation.
 (Independent, Jan 2025 Mar 2025)
- Designed and delivered live online courses on Probability & Statistics (Python) and Web Scraping for 10+ students, including hands-on projects and guided mentorship. (Independent, Jan 2025 – Present)

• Fine-tuned a GPT-4-mini model to emulate a strategic AI assistant for digital creators (Gage), focusing on brand deals, monetization, and mindset; built a sample JSONL dataset with tone, structure, and fallback handling.

Collaborated with a fellow engineer via Upwork. (Collaborative, May 2025)

Data Science Engineer - 4InaTechnology (Energy Sector)

- Manouba, Tunisia | Feb 2024 Aug 2024
 - Designed an ETL pipeline to collect sensor data from STM32 microcontrollers, processed it with Flask, and stored results in Firebase using Firestore and Realtime Database for scalable deployment.
 - 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

Ŷ 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

Al-Driven Football Player Performance Analysis (Big Data & Al | 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: Intermediate A2
- French: Fluent | Arabic: Native