

LOUAI EDDIAZ

AI Engineer | Data Scientist | Software Engineer

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SUMMARY

AI engineer and data scientist at a Dutch AI and software consultancy, building large language model, retrieval-augmented generation and agent systems in Python and the software around them. Measured: weighted F1 0.845 over 568,000 records, AUC-ROC 0.843 on a leakage-safe split. MSc Data Science and Artificial Intelligence in progress.

PROFESSIONAL EXPERIENCE

devUP - AI Engineer and Project Manager

Remote, Dutch AI and software consultancy | June 2025 - Present

- Build the AI layer of client products in Python: retrieval-augmented generation and agents.
- Define evaluation criteria alongside each AI feature, so correct is measurable before it ships.
- Engineer the software around the models: FastAPI services, REST and webhook integrations.
- Design approval gates so that no generated message reaches a customer unreviewed.
- Lead delivery for two teams of three to five across 10+ client projects, scoping to release.

Tingis - Sales Agent

Tangier, Morocco | July 2024 - December 2024

- Sold energy and insurance contracts into the French market in French; ranked first twice.

PROJECTS

Restaurant Analytics Platform

FastAPI, TensorFlow, React, TypeScript | github.com/Beethoven04/svd-restaurant-analytics

- Decomposed 14 weeks of restaurant orders three ways; trained an LSTM to forecast the fortnight.
- Built a FastAPI backend of 67 REST endpoints, a React and TypeScript interface, 49 pytest tests.

SentiStream, real-time sentiment pipeline

Kafka, Spark MLlib, MongoDB, Flask, Docker | github.com/Beethoven04/sentiment-analysis

- Built a Kafka to Spark MLlib to MongoDB streaming pipeline with a Flask dashboard, in Docker.
- Reached weighted F1 0.845 over 568,000 Amazon reviews classified in stream, classes imbalanced.

DeepFake Detection

PyTorch, EfficientNet-B0, MediaPipe, Gradio | github.com/Beethoven04/DeepFake

- Fine-tuned EfficientNet-B0 on MediaPipe-sampled frames into a thresholded video verdict.
- Measured AUC-ROC 0.843 over 28,057 frames from 428 videos, split at video level, no leakage.

Portfolio and engineering platform

Astro, TypeScript, React, Cloudflare Workers | beeet.dev

- Shipped a static TypeScript site with a Content-Security-Policy and a WebAssembly chess island.
- Profiled it over the Chrome DevTools Protocol: p90 mobile frame time 51.8 ms to 35 ms.

TECHNICAL SKILLS

AI and Machine Learning: Large language models, retrieval-augmented generation, agent orchestration, fine-tuning, prompt design and evaluation, embeddings and vector search, PyTorch, TensorFlow, scikit-learn, LangChain

Data Science: Python, pandas, NumPy, SQL, feature engineering, statistics and probability, time-series forecasting (LSTM), matrix decomposition (SVD), model evaluation (F1, AUC-ROC, thresholding), leakage control

Data Engineering: Apache Kafka, Apache Spark (MLlib), MongoDB, streaming and batch pipelines

Software and Cloud: FastAPI, Flask, REST API design, React, TypeScript, Docker, Git, Google Cloud, pytest

Delivery and Automation: n8n, Power Automate, Copilot Studio, Agile, Scrum, Jira, Confluence

Languages: Arabic (native), French and English (professional working proficiency)

EDUCATION

MSc, Data Science and Artificial Intelligence

Faculty of Sciences and Technologies, Tangier | 2025 - 2027, final year in progress

BSc, Mathematics and Computer Science

Faculty of Sciences, Tetouan | 2022 - 2025