

Jawad Hussein Al-Jawhari

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OBJECTIVE

Data Science graduate with hands-on experience in AI systems, NLP, and Retrieval-Augmented Generation (RAG). Skilled in Python, SQL, and LLM-based solutions, with proven ability to deliver data-driven tools for real-world newsroom workflows.

SKILLS & ABILITIES

Programming and Tools: Python, SQL (PostgreSQL), PHP, Laravel, Power BI (basic).

AI & Machine Learning: NLP, Deep Learning, Time Series, LLMs, RAG Pipelines, Vector Embeddings.

Soft Skills: [Time Management](#), Requirement Gathering, Stakeholder Communication, Problem-solving.

EXPERIENCE

Data Scientist

UNews Press Agency | February 2025 – Present:

- Designed an **offline Arabic AI assistant** using **local LLMs** (Ollama) for newsroom operations.
- Implemented an **enhanced RAG pipeline** with: Advanced text preprocessing, filtering, and semantic chunking.
- Processed **260k+ Arabic news articles** with rich metadata through robust data engineering pipelines for scalable information retrieval.
- Independently conducted **Exploratory Data Analysis** and **created data visualizations** to identify key data patterns, effectively communicating insights to non-technical stakeholders to bridge understanding.
- Translated editorial requirements into **automated AI workflows**, improving newsroom efficiency.

EDUCATION & CERTIFICATION

Bachelor of Science in Data Science

USAL University, Beirut | Graduation: 2025

Elements of AI for Business - eFlow (2025) | [Certificate](#)

PROJECTS

News Assistant for Press Agencies: [GitHub Repository](#)

Technologies: Laravel, PostgreSQL, Ollama(GPT-OSS Model)

- Built an **offline Arabic RAG system** combining search engines and LLMs.
- Processed and indexed **263k+ news articles** for fast, accurate answers.
- Improved response relevance through **question filtering and semantic retrieval**.

Arabic-MNIST: [GitHub Repository](#)

Technologies: Python, Deep Learning, CNN with Gradio UI

- Arabic letter classification with a **MobileNetV3 model**, trained on an **ImageFolder-style dataset**.
- Served through a Gradio demo that also visualizes intermediate feature maps.

Live View Map: [GitHub Repository](#)

Technologies: Flask, Leaflet, SQLite

- Developed a live mapping application that visualizes location-based news and incidents on an interactive Leaflet map.
- Structured the backend using Flask Blueprints and the application factory pattern, with SQLite and Flask-SQLAlchemy for data persistence and JavaScript-driven map interactions for content management.

Transcriber Application Whisper Model: [GitHub Repository](#)

Technologies: Flask, Whisper model

- Built a local speech-to-text app with offline transcription capabilities.
- Enabled audio upload/recording with editable and downloadable results.