

Jawad Hussein Al-Jawhari

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OBJECTIVE

Data Science graduate and Junior Software Developer with hands-on experience building AI tools and workflow automation. Skilled in large language models (LLMs) and practical AI systems. Proven ability to execute data-informed solutions for newsroom applications.

SKILLS & ABILITIES

Programming & Tools: Python, SQL (PostgreSQL), PHP, Laravel, Flask, Power BI (basic).
AI & Machine Learning: NLP, Deep Learning, Time Series, LLMs, RAG Pipelines, Vector Embeddings.
Systems & Data Engineering: Data Processing, Semantic Chunking, Information Retrieval, EDA & Data Visualization.

EXPERIENCE

Data Scientist
UNews Press Agency | *February 2025 – Present:*

- Designed and deployed an offline Arabic AI assistant using local LLMs via Ollama, where Newsroom staff needed faster access to a large Arabic news archive.
- Built a production-oriented RAG pipeline with text preprocessing, semantic chunking, vector embeddings, metadata filtering, hybrid retrieval, and response generation.
- Processed and structured **260k+ Arabic** news articles with metadata, enabling scalable semantic search and AI-powered question answering.
- Conducted EDA and data visualization to **identify data quality issues**, content patterns, and archive trends for non-technical stakeholders.
- Gathered editorial requirements and translated them into practical AI workflows, reducing manual effort and improving access to archived news content.
- Collaborated with editorial and technical stakeholders to explain system behavior, retrieval results, and workflow limitations.

EDUCATION & CERTIFICATION

Bachelor of Science in Data Science
USAL University, Beirut | Graduation: 2025

Elements of AI for Business - eFlow (2025) | learn.eflow.app/verify/360032509UROXc-20250913

Time Management Fundamental – LinkedIn (2025) | bit.ly/TimeManagement-LinkedInCertificate

PROJECTS

News Assistant for Press Agencies: github.com/MohamdAlJawhari/AI-Chat-System
Technologies: Laravel, PostgreSQL, Ollama (GPT-OSS Model)

- Built an offline Arabic RAG system combining search engines and LLMs.
- Processed and indexed the agency archive for fast, accurate answers and reduced manual article lookup.
- Improved response relevance through question filtering and semantic retrieval.

WhatsApp-Broadcast-Sender: github.com/MohamdAlJawhari/NodeJS-WhatsApp-Broadcast
Technologies: NodeJS, Electron, WPPConnect

- Developed an internal WhatsApp automation tool for the PR team, enabling spreadsheet-based personalization, phone number validation, media attachments, logging, and retry workflows.
- Achieved ~60% reduction in manual effort and time, without relying on the paid WhatsApp API.

Arabic-MNIST: github.com/MohamdAlJawhari/Arabic-MNIST
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.com/MohamdAlJawhari/live-view-map
Technologies: Flask, Leaflet, SQLite

- Developed a live mapping app 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.com/MohamdAlJawhari/Transcriber-with-Whisper
Technologies: Flask, Whisper model

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