

Zain Mhesn

AI & Machine Learning Engineer
Data Scientist | AI Engineer
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Seeking to leverage and use statistical analysis and scalable model development to transform complex datasets into high-performance, predictive software solutions. Driven to learn and work hard to bridge the gap between theoretical data science and production-level engineering.

Education

Damascus University | Bachelor's Degree Damascus, Syria | 2019 - 2025
Information Technology (Artificial Intelligence) | **Graduation Project:** RAG-based HR CV analysis system (score: 90) **Certificate:** AI & Machine Learning Training Program (SHAI AI Club) 2024.

Work experience

East Med | Flutter Developer & Ai Engineer (On-site) Damascus, Syria | 09. 2024 - 09. 2025 - Current

- Develop Flutter mobile applications with REST API integration and backend endpoint preparation
- Implement PL/SQL logic to support backend data operations and mobile system workflows

Learn For You | Flutter Developer | Remote Daraa, Syria | 08.2024 - 05.2025

- Contributed to multiple Flutter applications including e-commerce and educational platforms with 1,000+ downloads
- Enhanced UI/UX, application performance, and monetization outcomes through targeted design improvements and ad integration

Freelance Flutter Developer | Self-Employed Damascus, Syria | 01.2023 - Current

- Delivered multiple production-ready Flutter applications from initial concept to release for clients across diverse domains
- Managed the full mobile development lifecycle including architecture design, UI implementation, backend integration, testing, and deployment

Collaborated with remote teams and individual clients to meet delivery timelines while maintaining quality and functional requirements

Hard skills

Core Competencies: Machine Learning, Deep Learning (CNNs), NLP (RAG Systems, LLM Integration), Computer Vision, Information Retrieval (Hybrid Search & Reranking), Data Ingestion & Automation Pipelines, Data Mining, Robotics Simulation. | **Technologies:** Python, C#, FastAPI, TensorFlow, PyTorch, Hugging Face, LangChain, n8n(Workflow Automation), Docker & Docker Compose, Unity, Webots, PostgreSQL, Vector DBs. | Specialized Tools: Semantic Search (BM25 + E5), Cross-Encoders, Prompt Engineering, REST APIs & Webhooks, Flutter Web (AI Integration), NLI (Natural Language Inference).

Soft skills

Analytical Thinking & Complex Problem-Solving: Ability to translate theoretical research (like RAG & LLMs) into functional software solutions. | **Research & Evaluation Mindset:** Experienced in performance metrics (Spearman Correlation, Accuracy) to validate AI model efficiency. | **End-to-End Project Ownership:** From data extraction and pre-processing to building interactive user interfaces. | **Cross-Domain Expertise:** Bridging the gap between AI, Robotics, VR, and Mobile/Web Development. | **Technical Curiosity & Adaptability:** Independent learner staying updated with the latest SOTA (State-of-the-Art) in Generative AI. | **Professional Collaboration:** Effective team communication in remote and on-site environments, with experience in supervised academic/industrial projects.

Projects

- **Intelligent HR Resume Ranking System:** AI Developer | 2026 | An AI-powered system that automates resume evaluation using RAG and LLMs. Developed a hybrid retrieval pipeline (BM25 + E5) with Cross-Encoder reranking, achieving 85% accuracy and 0.74 Spearman correlation for candidate ranking. Features interactive NLP querying for recruiters.
- **AI Insurance Assistant:** Machine Learning Engineer (EastMed) | 2026 | Developed an intelligent conversational RAG system to streamline customer support for insurance policyholders. The system processes complex documents, including product coverage, policy exclusions, and investment details, providing instant, context-aware answers to user inquiries. | Tech Stack: Python, LangChain, RAG, LLMs, Vector DBs.
- **Automated Job Intelligence System:** Backend & Automation Developer | 2026 | Engineered a self-hosted automation pipeline using n8n and Docker to aggregate and filter real-time job postings from Telegram. The system employs rule-based filtering and conditional logic to evaluate message metadata, eliminating noise and routing high-relevance opportunities to targeted channels. | **Tech Stack:** n8n, Docker, Telegram Bot API, JavaScript, REST APIs.

Professional Development

Generative AI & RAG Training Program	EastMed (Internal Training) 2025
AI & Machine Learning Training Program	SHAI (AI Club) 2024
ICPC Collegiate Programming Contest	Damascus University 2021