

Ezzaldeen Hamdan - AI Engineer

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Education

B.Sc. in Computer Science | **Al-Ahliyya Amman University**

Amman, Jordan | Fall 2021 – Spring 2025

Excellence GPA of 3.69 (2nd in cohort) | Member of the AAU IT & DSAI Clubs | Honoree Graduation Project: [Uni-Archives](#) | [BCML-2025](#)

Experience

9XAI Fellow (Lighthouse Cohort) | HTU & NCFT

KHBP, Amman, Jordan | Feb 2026 – Present

Selected as 1 of 20 fellows for the inaugural national AI initiative, following a competitive, multi-stage evaluation process. The initiative, which is being hosted by the **National Council for Future Technology (NCFT)** and **Al Hussein Technical University (HTU)**, focuses on developing and validating AI solutions across Jordan's institutional and governmental partners while tackling nationwide challenges.

Junior Artificial Intelligence Engineer | z28.ai

Amman, Jordan | Feb 2026 – Present

- Engineered memory-efficient ETL pipelines using Pandas chunking and BigQuery, processing multi-GB datasets (1M+ records).
- Built an engine to identify and extract thousands of attributes from an unstructured HTML blob embedded in a database column.
- Implemented automated data quality profiling, calculating null-rates and distribution statistics across dynamic schema columns.
- Designed a snapshot modeling pipeline to generate training datasets for borrowers, loans, payments, and call-history features.
- Conducted segment-level lift analysis to quantify repayment probability uplift across behavioral cohorts relative to baseline.
- Implemented LightGBM models with class imbalance calibration, feature auditing, and cohort breakdowns, achieving 0.91 AUC.
- Developed an ML interpretability pipeline to bridge the gap between high-performing ML models and business stakeholder trust.

Artificial Intelligence Engineer | Altibbi

KHBP, Amman, Jordan | Sep 2025 – Jan 2026

Duplicates Detector System

- Built an end-to-end ETL pipeline for 10+ MySQL tables with data cleaning, content consolidation, and resumable processing.
- Created a scalable embedding workflow with batching, caching, and storage of 100k+ vectors and metadata in ChromaDB.
- Reduced detection process from 3 hours to 15 minutes by building a rapid engine with cosine similarity and star clustering.
- Added production safeguards, read-only DB access, metadata handling, a Streamlit UI, and config-based automated runs.

Medical RAG Chatbot

- Built an asynchronous web-scraping pipeline to collect and chunk 15k+ Altibbi news and articles with fault tolerance.
- Designed and deployed a production embedding pipeline storing vectors in both Milvus and Qdrant for semantic search.
- Implemented a 3-layer RAG stack (classification, refinement, retrieval) with OpenAI models and strict source citation.
- Set up CI/CD pipelines with Jenkins and Bitbucket, integrating Docker-based builds to streamline deployment workflows.

Rotational Intern | The Islamic International Arab Bank (IIAB)

Amman, Jordan | Aug 2024 – Sep 2024

- Had exposure to enterprise banking systems (iMAL) and security frameworks, including ArcSight and intrusion prevention.
- Assisted in database administration and SDLC across 11 IT departments, focusing on middleware and API management.

Featured Projects

AI-Learning-Engine

Jun 2025 – Aug 2025

An AI-powered platform that transforms documents into interactive quizzes and study materials with advanced scoring capabilities.

- Built a multi-provider AI system supporting Local AI (Ollama), Google AI, and OpenAI with runtime API key management.
- Created a quiz system with adjustable difficulty and question types (MCQ, T/F, open-ended) along with an AI-driven scoring.
- Developed a study materials generator creating summaries, cheat sheets, flashcards, and key terms with adaptive difficulty.

Featured Certifications

Artificial Intelligence | Samsung Innovation Campus

Oct 2025

Agentic AI Certificate | SHAI

Jun 2025

GitHub Foundations Certificate | GitHub

May 2025 – May 2028

EF SET English Certificate (C2 Proficient) | EF SET

Nov 2023

Skills

Technical Skills:

Languages

Python, JavaScript, Java, C#

Libraries & Analysis Tools

FastAPI, ASP.NET, Streamlit, PowerBI, Tableau

Automation & MLOps

Jenkins, Docker, Portainer, Git, GitHub, Bitbucket, Kafka

Databases & ML Tools

MySQL, PostgreSQL, Qdrant, Milvus-lite, ChromaDB

Soft Skills:

Strategic Thinking

Project Management, Critical and Analytical Thinking,

Collaboration

Teamwork, Cross-Cultural Communication, Leadership

Creativity

Innovation, Persuasion, Adaptability, Curiosity

Personal Growth

Willingness to Learn, Resilience, Self-Motivation

Please visit my LinkedIn, portfolio, or GitHub for a comprehensive overview of my qualifications, including projects, code samples, certifications, and additional materials. All information is available upon request. I look forward to the opportunity to discuss further.