

# Fares Hatahet

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## PROFILE

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Fourth-year Artificial Intelligence student at the University of Jordan (GPA 3.81) with hands-on experience in deep learning, RAG systems, GANs, and multimodal AI applications. Contributing to ongoing EEG-based research in collaboration with university faculty, with a strong focus on model design, data preprocessing, and evaluation. Worked across a wide range of applied AI systems, from accessibility tools and medical-document QA systems to emotion recognition, synthetic data generation and early agentic workflow concepts for LLM-powered automation. Passionate about building practical, research-driven solutions with real-world impact.

## EDUCATION

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Oct 2022 - present

Bachelor's Degree, **Artificial Intelligence**, University of Jordan

GPA: 3.81

## SKILLS

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|---------------------------------------|------------------------------------|
| • Machine Learning                    | • Back-end development with Flask  |
| • Deep Learning                       | • Front-end development with React |
| • AI Research and Technical Writing   | • Communication                    |
| • Java & Python (TensorFlow, PyTorch) | • Organization                     |
|                                       | • Leadership                       |

## COURSES AND CERTIFICATIONS

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|----------------------------------|--|
| • Programming in C++             | • Front-end Development                  |
| • Programming in Java            | • Computer Networking                    |
| • Programming in Python          | • Database Management Systems with MySQL |
| • Data Structures and Algorithms | • Data Mining                            |
| • Design with Figma              | • Machine Learning                       |
| • Deep Learning                  |  |

## PROJECTS

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### EEG Multi-Class Classification & EEG-VQA Research, In Progress

Collaborating with Dr. Tamam Alsarhan (University of Jordan) on developing deep learning models for understanding EEG signals, focusing on two research directions:

- Designing and training neural network architectures for multi-class EEG state classification.
- Contributing to preprocessing, signal filtering, experimentation, and evaluation pipelines.
- Exploring early-stage approaches for interpreting EEG waveforms with language-model-based reasoning.

### Fluentia, Oct 2025

GitHub Link: <https://github.com/TisTis0004/Build-with-AI-2025>

- Collaborated with **Adnan Sawalha** and **Ahmed Al-Hmouz** to develop Fluentia, an AI-based accessibility platform that simplifies digital reading for individuals with cognitive conditions.
- Built a browser extension and PDF reader powered by Google Gemini AI, transforming complex text into more accessible and personalized formats.
- Supported four user profiles (Dyslexia, ADHD, Aphasia, Autism) with adaptive text views and integrated text-to-speech functionality.

- Focused on inclusivity, user-centered design, and real-world impact through AI-driven accessibility.
- Tech stack: Google Gemini AI, JavaScript, Python, FastAPI

### **MediRead – Medical PDF RAG Question-Answering System, July 2025**

Built a domain-specific Retrieval-Augmented Generation system capable of analyzing dense medical PDFs and returning grounded, non-hallucinated answers.

Core components:

- PDF parsing (PyMuPDF), chunking (LangChain), embeddings via BioBERT, vector indexing via FAISS, and answering using SmolLM3-3B.
- Designed Streamlit interface and full ingestion-to-answering workflow.
- Ensured strict context retrieval to prevent hallucinations.
- Implemented multi-PDF support and optimized pipeline for clarity and accuracy.

## **HONORS & AWARDS**

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### *Tourism Innovation Hackathon • August 2025*

Awarded first place for GeoMatch, a gamified tourism application combining AI-based preference filtering with location-based exploration.

- Developed concept and prototype promoting hidden tourist spots in Jordan through gamification and personalized recommendations.
- Hosted by the University of Jordan Innovation and Entrepreneurship Center & School of Archaeology and Tourism.

### *Google – Build with AI, Oct 2025*

- Ranked among the top 10 out of 50 national university teams
- Developed Fluentia, an AI-powered accessibility tool enhancing digital reading for individuals with cognitive conditions
- Created a browser extension and PDF reader powered by Google Gemini AI
- Supported four accessibility profiles: Dyslexia, ADHD, Aphasia, and Autism
- Integrated adaptive text views and built-in text-to-speech for improved inclusivity