

Reem Refaat Hassaan

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PROFILE

Aspiring AI/ML student with a strong foundation in Natural Language Processing (NLP) and Deep Learning (DL). Experienced in developing and fine-tuning models, while also exploring automation workflows and AI agent development. Passionate about applying AI techniques, automation, and intelligent agents to solve real-world problems and continuously advancing knowledge in cutting-edge NLP, DL, and Gen AI technologies.

EDUCATION

Damietta University

Bachelor of Computer Science, AI Major

Oct 2022 - June 2026

TECHNICAL SKILLS

Programming Languages: Python, C++ , Javascript, PL-SQL.

Libraries and Tools: TensorFlow, Pytorch, Keras, Skleran, Pandas,LangChain, MySQL, MS SQL Server, MongoDB, Git and Github , Docker and kubernetes, Linux, AWS, Hugging Face, Fast API, Flask, Streamlit, N8N.

Concepts: : OOP, Data structure, Problem solving, Advanced databases, Operating system, Machine learning algorithms, Linear Algebra, Probability and statistics,Virtualization and Containerization, Cloud computing, Deep learning, Generative models and Natural language processing, Recommendation Systems, RAG, Prompt Engineering, Transformers,,Vector Database, Fine Tuning LLM, Automation, Web Scraping.

EXPERIENCE AND VOLUNTEERING

- **Gen AI Trainee** Aug 2025 – Present
ITI – Trained on LLMs, prompt engineering, RAG, and LangChain for building practical Gen AI applications.
- **Session Lead** Jul 2025 – Present
Udacity – Led and taught high school students programming fundamentals through interactive sessions and hands-on projects.
- **Freelance AI Trainer** Jan 2025
Outlier – Improved language model responses using Reinforcement Learning from Human Feedback (RLHF) by selecting and ranking the most appropriate outputs.
- **AI Intern** Sep 2024 – Dec 2024
Huawei ICT Academy – Gained hands-on experience in machine learning and deep learning, working on real-world AI concepts and applications.
- **Coding Instructor** Mar 2024 – Apr 2025
iSchool – Led fun, interactive sessions and simplified technical and programming concepts to effectively teach children foundational coding skills.

PROJECTS

- **AI Proposal Generator** : Developed an AI-powered job proposal generator that analyzes a candidate's CV and automatically crafts a formal, tailored application letter using the LLaMA 3 model via Groq API. [GitHub](#)
- **Chat with PDF using RAG** : Implemented a Retrieval-Augmented Generation (RAG) system leveraging document chunking, semantic search with FAISS, and a LLaMA-based language model via the Groq API for contextual question answering and document summarization [GitHub](#)
- **AI-Powered CV Screening Automation (N8N)** Developed an automated workflow to pull CVs from Gmail, extract and analyze text, compare with job descriptions, evaluate strengths, weaknesses, and gaps, generate a relevance score, and log results in Google Sheets. .
- **Voice Interactive Smart Home:-** Developed an AI-powered smart home system using Raspberry Pi with speaker recognition for secure door unlocking, voice-controlled garage automation, and integrated flame/gas sensors for safety alerts.
- **E-commerce Recommendation system:** Implemented a recommendation system with various techniques like content based, Rating-Based and Collaborative Filtering using cosine similarity to find the similar users and similar items. In Backend i used flask api and MySQL . [GitHub](#)
- **Smart Bracelet for Deaf People:** Designed a smart bracelet using ESP32 that classifies environmental sounds with a deep learning model, vibrates to alert the user, and sends real-time results to a Flutter mobile app via Bluetooth. .