Hanaa Alhoushan

AI Engineer / Machine Learning Engineer / Data Analysis

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About Me

Artificial Intelligence Engineer with a strong academic background and hands-on experience in Machine Learning, Deep Learning, NLP, and Large Language Models (LLMs). Experienced in developing intelligent systems, AI-powered chatbots, and data-driven applications through academic projects, research, and professional training. Skilled in Python, ML/DL frameworks, and AI model integration, with additional experience in backend development for deploying intelligent solutions. Motivated to contribute to impactful AI projects and continuously grow within research-driven or industry-focused environments.

Experience

❖ **Teaching Assistant – Neural Networks**

Damascus University

2025 – Present

- Assisting in teaching the Neural Networks course for undergraduate students within the Artificial Intelligence program.
- Supporting students in understanding core concepts including artificial neural networks (ANNs), activation functions, backpropagation, loss functions, and model training.
  - Contributing to practical sessions and academic support related to machine learning and neural network fundamentals.

❖ **AI Developer Trainee – Alrifai Consulting Group, Istanbul, Turkey (Jul 2024 – 2025)**

- Worked on Large Language Models (LLMs), NLP, and ML/DL models.
- Developed prototypes for LLM-based chatbots to improve customer interaction.
- Implemented deep learning models for text classification and sentiment analysis.

❖ **Web Designer – Syria Scope Travel (Freelance, WordPress) (Oct 2024 – Present)**
- Customized WordPress themes and plugins for a responsive travel website
- Optimized site performance and mobile responsiveness.

❖ **Laravel Developer-Freelance. (Feb 2025)**
- **Barbershop management system**

- Designed and developed a Laravel-based barbershop management system

• Implemented authentication, role-based access, Stock and service management

• Designed MySQL database schema and RESTful APIs.

- **Sawalfji**

• Fun educational quiz app with points and challenges to enhance knowledge.

Projects

AI & Machine Learning Projects

Graduation Project – Motion to Animation System (2024)

Developed an AI-based system that converts motion data into 3D human animations, enabling the generation of short animated films. The project combined machine learning techniques with computer graphics and animation pipelines.

Intelligent Spelling Correction System (2023)

Built a deep learning and NLP-based model for contextual spelling correction, capable of identifying and correcting spelling errors based on sentence meaning rather than isolated words.

Image-Based Puzzle Solver (2023)

Implemented a computer vision system to analyze images and automatically solve visual puzzles using image processing and pattern recognition techniques.

Healthcare Chatbot System (2022–2023)

Designed and implemented an NLP-based healthcare chatbot by integrating Python machine learning models with a backend system to manage user interactions and responses.

Application & Academic Projects

Taxi Driver Management System (2021–2022)

Developed a mobile-based system using Flutter for the frontend and Laravel for the backend, enabling communication between the application and server through APIs.

E-commerce Web Application (2020–2021)

Built a Laravel-based e-commerce web application, gaining foundational experience in backend development, database design, and business logic implementation.

Angry Birds 3D Simulation (2023)

Developed a 3D simulation using Unity Engine, focusing on physics-based interactions and object behavior modeling.

Education
• Master's in Artificial Intelligence (Ongoing).

 Damascus University — 2025 — Present

• Bachelor of Information Technology Engineering — AI Specialization.

 Damascus University — 2019 — 2024

Volunteering & Research
• Researcher (IT & AI Department) — Reparametrize Studio (2024)
  Research on AI applications in post-disaster reconstruction.

Technical Skills
• Programming: Python, PHP, C++, Java

• Frameworks: Laravel, React (basic), Unity Engine

• AI Techniques: NLP, Machine Learning, Deep Learning, Computer Vision, Large Language Models (LLMs)

• Databases: MySQL

• Tools: Git, GitHub, GitLab, Google Colab

• Soft Skills: Teamwork, Problem-Solving, Communication

Languages
• Arabic: Native
• English: B1 (Intermediate