Shahenda Adel Abdelrahman

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Summary

Detail-oriented Artificial Intelligence student with a strong academic record (CGPA 3.5/4.0) and hands-on experience in research, software development, and machine learning. Proven ability to contribute to complex projects, from developing peer-reviewed research on RAG systems to building practical applications using Java and Python. Seeking to apply my skills in AI, computer vision, and NLP to an innovative and challenging role.

Education

Bachelor of Science in Artificial Intelligence Science

Sep 2021 - Jun 2025

Alamein International University (AIU), Egypt CGPA: 3.5 / 4.0

Experience

Research Contributor – RAGyverse Project

Conference Publication

Academic Research

- Contributed to a project-based research paper on Retrieval-Augmented Generation (RAG) with 3D Unity VR, resulting in a peer-reviewed conference publication.
- Participated in experiment design, data handling, and documentation.

Field Trainee – Arabic NLP

Sep 2024

City for Scientific Research and Technological Applications (SRTA-City)

• Focused on the implementation and evaluation of NLP models for Arabic news detection and classification.

Java Developer Intern

Feb 2023 - May 2023

Information Technology Institute (ITI), Alexandria, Egypt

- Co-developed a chatroom application using JavaFX, socket programming, and a MySQL database.
- Created the Graphical User Interface (GUI) for user registration and login functionalities.

Projects

Graduation Project: Servio - AI Guided Service Discovery Aspect-Oriented Programming (AOP), RAG

• Designed a direct service discovery system using AOP and an integrated AI model to enable efficient lookup without relying on centralized service brokers.

Classroom Emotion Detection System

YOLOv7, Computer Vision

• Developed a computer vision model to analyze student engagement by identifying faces and classifying emotions, generating actionable insights for educators.

Reinforcement Learning Agent for Grid Gaming

OpenAI Gym, Q-Learning

• Implemented and trained a Q-learning agent to master grid-based games by navigating complex environments to maximize cumulative rewards.

Healthcare System Design & Documentation

System Architecture

• Led the requirements gathering phase by collecting functional requirements, designed the system architecture, and wrote detailed software documentation.

Technical Skills

Languages Python, Java, MySQL

AI & Machine TensorFlow, YOLOv7, OpenAI Gym, RAG, GAN, NLP (Arabic), Computer Vision, Re-

Learning inforcement Learning

Tools JavaFX, Unity (3D), Git

Core Concepts Data Structures, Algorithms, AOP, System Architecture, Software Documentation,

Socket Programming, OOP

Languages

Arabic: Native English: Intermediate