

Nour Firas Hijazi

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OBJECTIVE

highly skilled and innovative machine learning engineer. Critical thinker, employing analytical reasoning to effectively address complex challenges. I am also adept at collaborating within teams, leveraging my strong interpersonal skills to foster a cooperative and productive work environment. With a strong focus on building scalable and production-ready AI solutions, I conduct comprehensive testing and fine-tuning of AI models accordingly, proactively identify performance bottlenecks, and expertly resolve issues to ensure robust, reliable, and optimized deployment in enterprise environments.

EDUCATION

BEIRUT ARAB UNIVERSITY

Bachelor of Electrical and Computer Engineering

Lebanese Evangelical School

Secondary School Diploma

ACADEMIC PROJECTS

AI-Powered Crop Monitoring System Using YOLOv11 and IoT Sensors

- Developed a cutting-edge agricultural monitoring solution leveraging the latest YOLOv11 object detection model to accurately identify crop ripeness and detect diseases achieving high accuracy in both models.
- Integrated data collection through a rover equipped with a high-resolution camera and soil sensors, capturing real-time environmental and crop condition data.
- Designed a web-based dashboard for visualization and analytics, providing farmers with immediate insights to optimize crop management and resource allocation.
- Utilized NPK sensor to collect essential soil data.

Diabetes Prediction with MLOps Deployment

- Developed a machine learning model to predict diabetes risk using health metrics dataset.
- Implemented end-to-end AI/ML workflow including model training, validation and optimization.
- Containerized the application using Docker for consistent deployment environments.
- Deployed the solution on Kubernetes for scalable, production-level cloud orchestration.
- Gained practical experience in MLOps practices integrating ML model development with cloudnative deployment.

AI Chatbot with GPT-4 and Retrieval-Augmented Generation (RAG)

- Implemented an AI-powered chatbot using GPT-4 API integrated with a document retrieval system based on RAG.
- Fine-tuned prompt engineering to enhance chatbot relevance and contextual understanding.
- Designed backend services in Python for seamless integration with enterprise systems using REST APIs.

Scikit-learn Machine Learning Prototype with Streamlit UI and Scalable Deployment

- Developed a prototype machine learning model using Scikit-learn for predictive analytics.
- Created an interactive user interface with Streamlit to visualize model insights and predictions.
- Containerized the application with Docker to ensure consistent development.
- Deployed the solution on a Kubernetes cluster (Minikube).
- Demonstrated skills in end-to-end AI/ML application development, from algorithm implementation to cloud deployment.

LANGUAGES

Arabic (native)

English(proficient)

Dutch(novice)

ADDITIONAL SKILLS

- Technical skills: Python, TensorFlow, PyTorch, Keras, OpenCV, YOLO, GPT, Langchain, Docker, Kubernetes, AWS, MLOps.
- Expertise in AI model development, computer vision, natural language processing, large language model fine-tuning, cloud deployment, and collaborative software engineering practices.

CERTIFICATIONS

- OpenAI ChatGPT Prompt Engineering for Developers
- OpenAI Introduction to Neural Networks

