Mohammed Mokhtar Soliman

AI Enginner

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Summary

Aspiring AI and IoT engineer with a strong foundation in intelligent systems engineering and hands-on experience in machine learning, data engineering, and full-cycle IoT development. Demonstrated ability to apply AI techniques in real-world applications and build automation pipelines. Proven record of volunteering and leadership.

Education

Bachelor of Engineering in Intelligent Systems Engineering | Helwan University
- Courses: Artificial Intelligence, Embedded Systems, Digital Communication, Database Systems, Control, Web Design

Experience

IoT Intern | Information Technology Institute (ITI)
- Smart Parking System — Real-time availability via MoT and proximity sensors.
- Light Monitoring — Lux level detection and dashboard visualization.
- Sigfox Multi-Sensor System — Multi-mode Sens'it data displayed via Sigfox.
- BLE Environmental Monitor — MQTT + BLE Gateway to web interface.
- Actuator Control (Iotik Kit) — Web UI to control LEDs and buzzer.

AI Intern | Qayedny
- Built automations with LangGraph, N8N, Airtable, PHP, and APIs.
- Created CV parser to extract skills and autofill application forms.
- Built chatbot to understand startup requirements and store responses.
- Designed auto-matching system between students and startups.

NLP Intern | National Telecommunication Institute
- NLP training using ML, DL, and LLMs.
- Capstone project with syntax analysis, text classification, and conversational AI.
- Techniques: TF-IDF, N-grams, similarity, speech NLP, model fine-tuning.

Cloud Computing Intern | Huawei (NTI)
- Virtualization with FusionCompute and KVM.
- Linux OpenEuler, IP networking, RAID, server basics.
- Managed and deployed virtual environments.

Computer Vision Intern | NTI
- Hands-on with classification, detection, segmentation, face recognition.
- Used ResNet, EfficientNet with transfer learning.
- Tools: PyTorch, TensorFlow, OpenCV.

AI Intern | Huawei (NTI)

- 80-hour AI program with Python, ML, DL, Huawei AI frameworks.
- Ranked Top 25 in MedMNIST Multi-Task Challenge on Kaggle.

Data Science Intern | ExploreAI Academy (ALX)
- Hands-on with SQL, NoSQL, Power BI, Python.
- Covered: regression, classification, NLP, AWS, Git.

Data Engineer Intern | Digital Egypt Pioneers Initiative (DEPI)
- Trained on SQL, SSIS, Azure, MLflow, MLOps, data warehousing.
- Real-world data pipeline and analytics practice.

AI Trainee | Zewail City of Science and Technology
- 50-hour AI program — fundamentals and practical use cases.

Projects

Autonomous Object-Manipulating Robot
- Built a dual-camera robot for object detection and segmentation using YOLOv8 and OpenCV.

Gesture-Controlled Robotic Arm
- Controlled a robotic arm via real-time hand tracking with MediaPipe and Python.

Security System with Face Recognition
- Used YOLOv11 and deep learning to detect objects and recognize faces for attendance.

Smart Parking System (IoT)
- Monitored parking slots in real-time using MoT sensors and dashboard interface.

AI CV Parser and Auto-Filler
- Extracted skills from CVs and automated form filling using Python and APIs.

Startup Matching Chatbot
- Matched interns with startups using chatbot, Airtable, LangGraph, and N8N.

Volunteering

Vice Head, Problem-Solving Committee | Pixels Egypt
- Trained volunteers in algorithms and data structures; organized contests and events.

Deputy Organizer | Resala Charity Organization
- Led medical camp logistics to serve thousands in underserved Egyptian villages.

Student Union Chair – Family Committee | Helwan National University

Certificates

- Deep Learning Nanodegree – Udacity (2024)

Skills

Programming: Python, C, C++, Java, SQL, PHP, JavaScript
AI Tools: TensorFlow, PyTorch, Scikit-learn, LangChain, N8N, Hugging Face
Data: Power BI, Azure, MySQL, SSIS, PostgreSQL, MLOps
Languages: Arabic (Native), English (Professional)
Other: Git, Linux, Jupyter, OpenCV, MQTT, BLE, Sigfox, REST APIs, LLMs, DL, ML, NLP, CV