Osama Sheriff

Mechatronics Engineer | AI & Chatbot Enthusiast

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Objective

Aspiring AI Engineer and Chatbot Developer with a focus on creating innovative solutions in artificial intelligence and conversational AI. Currently a final-year Mechatronics Engineering student at Mansoura University, with hands-on experience in control systems and machine learning, eager to leverage technical expertise in automation and AI to contribute to pioneering engineering projects.

Educational Background

Bachelor's Degree in Mechatronics, Robotics, and Automation Engineering
Institution: Mansoura University

Work & Internship Experience

Machine Learning and AI Trainee
Digital Egypt Pioneers Initiative (DEPI) | 04/2024 - Present

- Engaged in a comprehensive program in machine learning and AI.
- Focused on data analysis, algorithm development, and AI implementation.
- Gained experience in remote learning technologies and advanced AI techniques.

Intern
Mīt Ghamr Water Station | 07/2024 - 08/2024

- Assisted in automation tasks using control systems and embedded platforms.

Intern
The Arab Contractors | 07/2023 - 08/2023

- Contributed to electromechanical system maintenance and automation.

Intern
Digital Training Center (DTC), Mansoura University | 09/2022 - 09/2023

- Supported AI and machine learning training sessions; worked on chatbot development.

Skills

Technical Skills

- Programming Languages: Python, C, MATLAB, Bash
- AI & Machine Learning: Chatbots, object detection, tracking, and classification
- Control Systems: PLC, Arduino, and Raspberry Pi
- Mechanical Design: SolidWorks, CNC programming
- Image & Video Editing: Adobe Premiere, Photoshop

Languages

- Arabic: Native
- English: Proficient

Projects

Object Locating and Tracking

- Role: Lead Developer
- Description: Developed an advanced object locating and tracking system capable of real-time position detection using computer vision.
- Technologies Used: Python, OpenCV, machine learning algorithms.

Finger-Spaced Audio Control

- Role: Developer
- Description: Created a hand gesture-based audio control system that adjusts volume based on the distance between fingers.
- Technologies Used: Python, MediaPipe, and computer vision libraries.

Car Classification

- Role: ML Engineer
- Description: Designed a machine learning model to classify various car models based on image data.
- Technologies Used: Python, ResNet, image classification frameworks.

Cancer Prediction

- Role: Data Scientist
- Description: Built a predictive model for cancer diagnosis using clinical and image data.
- Technologies Used: Python, scikit-learn, and data visualization tools.