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Summary

Artificial Intelligence, Machine Learning, and Computer Vision enthusiast seeking a challenging role to apply my knowledge in AI-driven solutions, enhance my skills in advanced algorithms, and contribute to the development of cutting-edge technologies.

Education

Misr Higher Institute of Engineering and Technology

- **Bachelor of Science in Computer and Control System Engineering | Class of 2024**
- **GPA: 73.70% (Good)**
- **Graduation Project: Tele-driven Vehicle (Grade: Excellent 88.4%)**
- **Relevant Coursework: Machine Learning, Deep Learning, Computer Vision, Embedded Systems, Control Systems.**

Work Experience:

Tele-driven Vehicle (Graduation Project):

- Developed an object detection model using YOLOv8 for obstacle recognition.
- Implemented lane detection with OpenCV (CV2) using Canny and HoughLineP algorithms for Advanced Driver Assistance Systems (ADAS).
- Project Grade: Excellent.

Smart Parking Car (Atmega328p):

- Created a smart parking system using IR sensors and servo motors.
- Automated car entry and exit based on proximity detection.
- Project Grade: Excellent.

Function Generator Project

- Programmed a function generator using AD9833, MAX7219, and 4 Push Buttons for wave control.
- Project Grade: Excellent.

Database System for Dentist Clinic

- Designed and developed a database system for patient management, including data entry, updating, searching, and deleting records.
- Project Grade: Excellent.

Machine Learning project

- I utilized four models to achieve high accuracy, with the Random Forest algorithm delivering the best results. I used the Pandas library to load the CSV data and the Scikit-learn library for building and evaluating the models.

Internships & Trainings:

Tekatek Company | Trainee

June 2024

- Assisted in teaching children programming concepts, enhancing communication and teaching skills.

NeuronetiX Company | Machine Learning Intern

August 2024 – September 2024

- Gained hands-on experience in machine learning techniques and real-world applications of ML.
- Applied various ML models to practical scenarios.

Technical Skills

- **Programming Languages:** Python, C++, C
- **Machine Learning Frameworks:** TensorFlow, Keras, OpenCV
- **Algorithms:** YOLOv8, Canny Edge Detection, HoughLineP
- **Web Technologies:** HTML, CSS
- **Version Control:** Git
- **Tools:** Jupyter Notebook, PyCharm, Visual Studio, Visual Studio Code, SQL Server

Extracurricular Activities:

ENG MET ACPC Club | Public Relations**Sept 2022 – June 2024**

- Developed public speaking, teamwork, and time management skills through organizing events and leading project

Languages:

- Excellent knowledge of both spoken and written English and Arabic.