Abdelrahman Saleh Ibrahim

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Education

Arab Academy for Science, Technology & Maritime Transport, Smart Village Campus

Graduated June 2024

Major: Software Engineering
Minor: Computer Science

Internships & courses

ITI (Artificial Intelligence)

Sep 2023 – Oct 2023

Completed a comprehensive AI course covering foundational AI concepts, probability, statistics, linear algebra, and Python programming. Developed skills in data preparation, exploration, and optimization for machine learning, with practical expertise in neural networks and deep learning to solve real-world AI problems.

GPA: 3.2

ITSharks (Ai Diploma)

Sep 2023 -Feb 2024

Completed a comprehensive course in AI, covering programming fundamentals (Python, OOP, software engineering), data science essentials (algebra, statistics, probability, NumPy, pandas), and machine learning concepts (regression, classification, feature engineering, clustering). Gained deep learning expertise in ANN, CNN, RNN, and advanced pre-trained models like YOLO and Mask-RCNN.

Telecom Egypt "WE" (Ai)

Jan 2024 –Feb 2024

Completed a comprehensive AI course, covering AI fundamentals, Python, and essential data science libraries. Gained hands-on experience in machine learning and deep learning, focusing on CNNs and custom architectures for data-specific tasks. Learned advanced techniques in object detection, segmentation, and pre-trained models like Mask-RCNN. Additionally, developed skills in labeling custom datasets and using automated tools for extracting frames from videos.

ITSharks (Back-End Course "Laravel")

Aug 2024 -Nov 2024

Completed a comprehensive back-end development course, starting with native PHP and progressing to the Laravel framework. Gaining hands-on experience in building various web applications, including e-commerce platforms, Doctors reservation system, Instagram DEMO with a focus on database management, routing, authentication, and API integration.

Graduation Project

Smart Glasses for Visually Impaired (Graduation Project): Designed and developed smart glasses to assist visually impaired users in daily tasks. Built on a Raspberry Pi 4, the device includes a camera, headphones, and a microphone. Trained a custom YOLOv8 model on a self-collected and labeled dataset to accurately detect products in real-time, with audio feedback provided to the user. Led the end-to-end AI development, from data collection and model training to hardware integration, and contributed significantly to project documentation for clear communication of our work.

Projects

Smart Garage System (Arduino UNO)

May 2024

- Developed a mobile app-controlled smart garage automation system using Arduino Uno and Bluetooth communication. The system features:
 - Cars counting: automatically counting incoming and leaving cars using sensors in the gates and calculate the free spots.

 Garage Door Control: The system enables remote opening and closing of the garage door via the mobile app, enhancing security and convenience.

Animal recognition System

Feb 2024

Developed software using Convolutional Neural Networks (CNNs) to classify and identify animal species from images. Collected and labeled a diverse dataset, designed and trained a CNN model, and implemented techniques for data augmentation and regularization. Evaluated the model's performance using accuracy and other metrics. Deployed the system with a user-friendly interface for real-time animal recognition.

Cinema booking website

Jan 2023

- Developed a Website for online cinema booking using:
- HTML,CSS,JavaScript: Designed an interactive user-friendly interface for the website.
- AJAX,PHP: used for backend developing and Database integration
- Database Integration: Connected the application to a database (PhpMyAdmin) to manage movies, customers and admins.

Clinic booking website (Doccure)

Noc 2024

- Developed a Website for online Clinic booking using:
- HTML, CSS, JavaScript: Designed an interactive user-friendly interface for the website.
- PHP (Laravel): used for backend developing and Database integration using multi authentication for doctors and patients
- Database Integration: Connected the application to a database (PhpMyAdmin) to manage movies, customers and admins.

Skills

Fast learner

Team Work

Critical Thinking

Problem Solving

Searching

Attention to Detail

Technical Skills

Advanced in

PythonPhp

- C++
 - Laravel

JavaScript

Familiar with

- Java
- Linux
- Design Patterns
- C

- R
- Data Structures
- Microsoft Office Suite
- Assembly language
- Arduino Projects
- Algorithms
- React
- Figma/balsamic

References

Available upon request