



Mariam Osama


AI Developer

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 EL-Sharkia-Zagazig (easy reallocate)

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Profile

AI Developer with a strong focus on Generative AI and LLMs, interested in building intelligent systems that combine deep learning, image processing, and content generation. Skilled in developing and deploying end-to-end AI solutions using Python, TensorFlow, and OpenCV.

Internship

Summer internship in Embedded Systems, (ITI) Information Technology Institute, 2022
(MCIT) Ministry of communications and Information Technology

- Embedd System Concepts
- Microcontroller Interfacing
- Real Time Operating Systems
- Embedded Systems Tooling

Education

9-Month Diploma (ITI), Information Technology Institute, (MCIT) Ministry Of 10/2024 – 06/2025
Communications And Information Technology Mansoura
Artificial intelligence and machine learning, Mansoura Branch

Bachelor's in Computer Science department, 2020 – 2024
Computer and Informatics Zagazig University
(ranked 4th, GPA (3.7))

Skills

| | |
|--------------------------------------|--|
| Transformers | Natural language processing |
| LLMs | AI Agent |
| Deep learning | Object detection, Segmentation |
| Time series | Supervised and Unsupervised learning |
| Machine learning | Mathematics Statistics, Linear Algebra, calculus, Numerical Optimization |
| Computer Vision | Recommender System |
| Open CV | Python libraries Tensorflow, pandas, Plotly, Matplotlib, Sklearn |
| Data Analysis and Engineering | SQL and NoSQL |

Projects

Job search assistant using Ai agent

Using crew agent to build four agents one for creating queries depending on job title, level and country, the second for Google searching for that queries the, third for web scraping and the fourth summarise which skills the candidate should have

Drowsiness Detection (for drivers)

Used AI models to detect drowsiness by analyzing eye states (open/closed) and yawning patterns. connecting with Flutter App to use Mobile Camera and using Arduino to alert the drivers using multi levels

Documents classification

Using Unsupervised_ML to classify People Wikipedia Dataset and 20 Newsgroups Dataset

Multi Class Prediction of Obesity Risk

Developed a multi-class classification model to predict obesity risk categories using supervised learning algorithms

Hate Speech Classification

using LSTM and Streamlit to classify tweets negative or not

Data segmentation

Chest CT Data Segmentation using U-Net

Smart home

Designed and implemented a smart home system using proteus.

Part-of-Speech (POS) tagging project

This project aims to classify each word in Arabic sentences according to its Part-of-Speech (POS) tag **bert-base-arabertv02**, a pre-trained transformer model tailored for Arabic language understanding.

Activities

IEEE member in Banha studen branch(Arduino commit)

2024

Personal skills

Team work skills

Presentation skills

Problem Solving

Communication skills

Time management

Research Skills

Languages

Arabic

Native

English

B2

German

A1