

# Omar Khaled Yehia

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## Professional Experience

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- 2024/12 – present      **Applied ML Undergraduate Researcher**  
*Zewail City Computing Society*
- **Worked on research papers** to implement machine learning models.
- 2024/08 – 2024/10      **Computer Vision Engineer Intern**  
*Cellula Technologies*
- **Developed CNN models** (ResNet, VGG) for image classification, achieving 98% accuracy.
  - **Implemented U-Net for segmentation**, achieving 95% accuracy.
  - **Optimized models using TensorFlow and PyTorch** reduced training time by 15%.
- 2024/08 – 2024/10      **Machine Learning Engineer Intern**  
*Technocolabs Softwares*
- **Trained ML models** for classification and regression with 99% accuracy without overfitting.
  - **Dealing with sparse data** (80%+ null%) and using PCA to prioritize feature
- 2023/06 – 2023/08  
Alexandria, Egypt      **Machine Learning and AI Trainee**  
*We*
- **Machine Learning:** Learnt machine learning principles and techniques. Obtained skills in data preprocessing, model building, and performance evaluation.
  - **Deep Learning:** Studied neural networks. Mastered skills in designing, training, and optimizing models for image and text classification using TensorFlow and Keras.

## Education

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- 2020/10 – present      **Computer Engineering, AI minor**  
Alexandria, Egypt      *Faculty of Engineering, Alexandria University*

## Skills

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Computer Vision	Machine Learning
Data Science	Agents
LLMs	Model Fine-tuning
Artificial Intelligence	Reinforcement Learning
EDA	Python
TensorFlow	PyTorch
C++	SQL
Flask	Streamlit

## Languages

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### Arabic

Native

### English

Fluent

### Spanish

A2

### German

A1

## Courses

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2025

### Fundamentals of AI Agents

*Hugging Face*

2024

### Machine Learning Specialization

*DeepLearning.AI, (Andrew NG)*

2024

### Machine Learning and AI Diploma

*AMIT Learning*

2024

### Foundations of Project Management

*Google*

2023

### The Fundamentals of Digital Marketing

*Google*

2023

### Sales Training: Practical Sales Techniques

*Udemy, Chris Croft*

## Projects

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### Arabic OCR

Finetuned Llama-3-11B and Qwen2 vision models on augmented KHATT dataset, used unsloth and LoRA for GPU and memory optimization.

### Egyptain Guide Chatbot

Finetuned Qwen2, Mistral-7B, and blenderbot-400M-distill on web scraped data about Egyptian monuments and museums, to make a friendly tour guide chatbot.

### Shop Lifting Detection

Developed a system to detect shoplifting incidents using computer vision techniques. Aiming to enhance security measures by accurately identifying suspicious behaviours achieving 98.75% accuracy, deployed using Django.

### Teeth Classification

Built and deployed a dental image classification model with Streamlit, achieving 98.25% accuracy across 7 categories.

### Water Segmentation

Engineered a solution for segmenting water bodies using 12-channel multispectral and optical data, achieving 95% accuracy and IoU of 0.8.

### Laptop Price Predictor Website

Launched an ML model that predicts laptop prices (1300+ records) using Flask.

### Malaria Detection

Identified malaria infections using clustering algorithms on medical data, improving the accuracy of early detection and achieving 93% accuracy.

### Sudoku Solver using RL

Designed a Sudoku solver using reinforcement learning principles and constraint satisfaction problem (CSP) techniques to efficiently solve puzzles with 100% accuracy.