

# Abdelrhman Tarek Mohamed Mostafa

## AI Engineer

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## Summary

- A highly driven Computer Science & AI student specializing in Machine Learning and Data Analysis, with hands-on experience in building scalable AI solutions.
- Seeking to leverage technical expertise and project management skills in a challenging role focused on developing innovative AI-driven products.

## Work Experience

### Programming Instructor, iSchool

06/2024 – present

Cairo, Egypt

- Delivered programming fundamentals to students aged 11-14 as part of the Digital Egypt Marvels Initiative (DEMI).
- Successfully managed classes of up to 20 students, ensuring a high level of student engagement and understanding.
- Received an average student feedback rating of approximately 4.5/5 last month, with no negative feedback or red flags from mentors.

### Microsoft Machine Learning Engineer, Digital Egypt Pioneers Initiative DEPI

04/2024 – 10/2024

Cairo, Egypt

Specialized in AI and Data Science, focusing on Machine Learning with minors in Mathematics and Statistics. Completed professional tracks in freelancing, teamwork, and problem-solving, under a program led by MCIT to foster digital leadership.

### Machine Learning Internship, Mentorness

03/2024 – 04/2024

Remotely

- **Machine Learning Pipelines Article:** The Steps for Building end-to-end ML from Data Collection to model deployment.
- **Credit card Prediction:** Predict the approval or rejection of credit card applications.
- **Sales Forecasting for Furniture Store:** For a retail furniture store, predicting future sales is critical to avoiding inventory issues like overstocking or understocking, this predictive insight ensures an optimal customer experience, avoids losses, and maintains store sustainability.

## Projects

### KayoBot

10/2024

- Developed an AI-powered chatbot using NLP and Deep Learning techniques, which automated over 83% of answers.
- Achieved second place in the Digital Egypt Pioneers Initiative, with positive feedback on user experience and efficiency.

### Person Classifier

07/2024

Developed a face recognition system using machine learning, Flask, Python, OpenCV, and web technologies, achieving over 90% accuracy without neural networks.

## Amazon Sales Dashboard for India

06/2024

Designed a dynamic sales analysis dashboard using Python, Dash, and Plotly Express, enabling real-time tracking of sales metrics. Enhanced data-driven decision-making, leading to a 30% increase in sales insights visibility.

## Tetris Game AI, *Ai Engineer*

05/2024

Designed and Developed Tetris Game using Genetic Algorithm and Python to make AI play the game and gain a Higher Score which can get up to 260000 points.

## Brain Tumor MRI

04/2024

Implemented a Convolutional Neural Network (CNN) for MRI image classification with an F1 score of 92%, utilizing TensorFlow and Keras. Improved diagnostic accuracy by identifying tumor presence with high precision, validated on a dataset of 6,000 MRI images.

## Education

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### Computer Science & Artificial Intelligence, Cairo University

09/2021 – 06/2025

Bachelor of Engineering

Cairo, Egypt

Major in Computer Science and AI, Minors in Mathematics and Statistics

Relevant Coukrsewor: Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, Data Science

## Skills and Languages

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### Technical Skills

**Programming Languages:** Python, C++, Java, C#

**AI/ML:** Supervised Learning, Unsupervised Learning,

Deep Learning, Data Analysis, NLP, TensorFlow,

Keras, Scikit-learn

**Database:** MS SQL Server

**Tools:** Git, GitHub

**Web Development:** Frontend (HTML, CSS, JS),

Backend (Flask, Django)

**App Development:** Qt, PyQt5, WPF, Tkinter

### Soft Skills

Teamwork, Leadership, Creativity, Problem-Solving, Adaptability, Communication

### Languages

- Arabic

- English

## Certificates

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- Unsupervised Learning, Recommenders, Reinforcement Learning 
- IoT Applications Development using MasterOfThings platform 
- Advanced Learning Algorithms 
- Introduction to the Internet of Things - IoT Value Chain 
- Supervised Machine Learning 
- Git and GitHub 

## Awards

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### Best Project, *Digital Egypt Pioneers Initiative (DEPI) and CLS*

02/11/2024

Awarded second place in the Digital Egypt Pioneers Initiative for the KayoBot project in AI Track.