

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 ↗ 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.	06/2024
Tetris Game AI, Ai Engineer ↗ 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.	05/2024
Brain Tumor MRI 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.	04/2024

Education

Computer Science & Artificial Intelligence, Cairo University Bachelor of Engineering Major in Computer Science and AI, Minors in Mathematics and Statistics Relevant Coukrsewor: Software Engineering, Operating Systems, Algorithms, Artificial Intelligence, Data Science	09/2021 – 06/2025 Cairo, Egypt
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Skills and Languages

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 <ul style="list-style-type: none"> • Arabic • English
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Certificates

<ul style="list-style-type: none"> • Unsupervised Learning, Recommenders, Reinforcement Learning ↗ • IoT Applications Development using MasterOfThings platform ↗ 	<ul style="list-style-type: none"> • Advanced Learning Algorithms ↗ • Introduction to the Internet of Things - IoT Value Chain ↗ 	<ul style="list-style-type: none"> • Supervised Machine Learning ↗ • Git and GitHub ↗
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Awards

Best Project, Digital Egypt Pioneers Initiative (DEPI) and CLS ↗ Awarded second place in the Digital Egypt Pioneers Initiative for the KayoBot project in AI Track.	02/11/2024
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