

Abdelrhman Tarek Mohamed Mostafa

AI Engineer

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Summary

- AI Engineer and Computer Science student at Cairo University, specializing in AI and data science.
- Experienced in machine learning, and Deep Learning.
- Skilled in Python, C++, Java, and web technologies, with hands-on experience in software development and data analysis.

Work Experience

Microsoft Machine Learning Engineer, Digital Egypt Pioneers Initiative DEPI 📄 04/2024 – 10/2024
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. Cairo, Egypt

Programming Instructor, iSchool 📄 06/2024 – 09/2024
Cairo, Egypt

- Delivered programming fundamentals to students aged 11-14 as part of the Digital Egypt Marvels Initiative (DEMI) in collaboration with the Ministry of Communications and Information Technology.
- 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.

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

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

Developed an interactive dashboard using Python, Dash, and Plotly Express to visualize and analyze Amazon sales data in India, including metrics like total orders, geographical distribution, and product category insights.

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| 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 classification of brain tumors using ANN, DNN and CNN using Python with F1 Score: 92%. | |
| BodaLearn Library | 04/2024 |
| Implemented Some of SKLearn Models from Scratch using Python: KNeighbors Classifier, KNeighbors Regression, Linear Regression, Decision tree and Random Forest. | |
| Bank System | 05/2023 |
| Designed and Implemented Simple Bank System using C# which can do Signing up a new user, updating a user details, add bank, add bank branch, add a customer, showing a list of loan, showing a list of customers, showing a list of loans with customer name and employee name, performing operations on loans, Performing operations on loans. | |

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

Technical Skills

ML Algorithms | Deep Learning
Data Analysis | Data Science
Software Engineering | Operating Systems
Data Structure | Algorithms
MS SQL Server | Git and GitHub
Python |Tkinter | Pyqt5
C++ | Qt, Java, C# | WPF | windows Form
HTML | CSS | JavaScript | Django
MS SQL Server, Git and GitHub

Soft Skills

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

Languages

- Arabic
- English

Certificates

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