Mohamed Abdalkader

Machine Learning Engineer

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PROFESSIONAL SUMMARY

Innovative Machine Learning Engineer with a strong foundation in computer science. Graduated from Zagazig University, experienced in AI solutions for medical diagnostics, energy forecasting, and image processing. Skilled in problem-solving and collaboration. Eager to drive innovation in AI projects.

EDUCATION

Bachelor's degree in Computer Science 09/2019 – 07/2023
Zagazig University

PROFESSIONAL EXPERIENCE

DEPI Scholarship 06/2024 – 12/2024

ShAI Internship 03/2024 – 06/2024

GDSC Internship 10/2022 – 11/2022

IEEE Internship 08/2022 – 10/2022

TECHNICAL SKILLS

Programming Languages
Java and Python

Data Analysis
NumPy, Pandas, SciPy

Machine Learning
Traditional ML models (SVM, Random forest…etc)
DL models (CNNs and RNNs)

Software Engineering
OOP, Data Structures, Algorithms, SQL, Design patterns and Version control (Git)

Data Visualization
Matplotlib, Seaborn and Power BI

Tools
CMD, Jupyter, PyCharm, Google Colab, Kaggle, IntelliJ IDEA

SOFT SKILLS

Problem-Solving | Analytical Thinking | Collaboration | Communication | Adaptability | Time Management

CERTIFICATES

Cisco
07/2022
Python

IEEE Al-Azhar
10/2022
Machine Learning Internship

IEEE Competition
08/2023
Graduation Project

AWARDS

ITAC
07/2023
Fund 70K Egyptian pounds

Academy of scientific research
08/2023
Fund 35K Egyptian pounds

LANGUAGES

Arabic ●●●●● English ●●●○○

PROJECTS

Graduation Project

AI-IoT for Renewable Energy Prediction
This project aims to transition from fossil fuels to renewable energy by utilizing IoT and deep learning technologies. It emphasizes accurate energy forecasting for grid stability and optimal resource allocation. Key components include a deep learning framework, IoT integration for data collection, and website development for user access to energy forecasts.

Medical Machine Learning
- Breast Cancer Detection
- Diabetes Detection

Energy Forecasting
- Household Power Consumption
- Solar and Wind Generation (Time series)
- Solar and Wind Generation (Using Weather)

Autoencoders
- Denoising Image
- Image Colorization

Image Recognition
- 101 Food
- Handwritten Digits

Others
- House Rent Prediction
- Diamond Price Prediction