

Mohamed Taha *AI Engineer*



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Egypt



Linkedn



Github



Portfolio

Professional Summary

AI Engineer & Data Scientist with 2+ years of experience in Machine Learning, Computer Vision, and NLP. Skilled in developing and deploying end-to-end AI solutions, with proven achievements including 1st place in Dell Technologies Global Competition and multiple Kaggle medals.

Education

BSc. in Computer Science Engineering with a very good grade with honors 2018/09 – 2023/07
GPA: 3.3 Mansoura, Egypt
Computer science and control systems engineering department
Graduation Project
Prediction of myocardial infarction using retinal scans GPA: 4.0

Master degree in AI 2024/09 – present
Faculty of Engineering, Mansoura University Mansoura, Egypt

Skills

Technical skills

Programming: Python, Dart, C++, C, C#, OOP, SQL.

Data Analysis: Statistics, Preprocessing, EDA using Alteryx Power BI, Tableau, Python libraries like Plotly Express.

Machine Learning: Scikit learn, XGBoost, Apache spark, MLOps, MLflow, AzureML

Deep Learning: TensorFlow, Pytorch, JAX

Computer vision: OpenCV, Ultralytics, MMDetection, GANS

Natural language processing: Spacy, NLTK, Transformers, Gensim

Generative AI & Large Language Models: Prompt Engineering, RAG, Embeddings, OpenAI API, HuggingFace.

Personal skills

Problem Solving, Leadership, Public Speaking, Organization, Analytical Thinking, Time Management, Teamwork, Searching, Adaptability, Eagerness to improve myself and learn everything new.

Work Experience

AI Instructor/Engineer at AI branch 2023/10 – 2025/10
Egyptian Naval Forces Alexandria, Egypt
Delivered AI training to military academy students and developed a model for naval mine detection using computer vision and machine learning.

Dell technologies program mentorship 2023/01 – 2023/09
Dell technologies Smart Village, Egypt
Build a translator model to convert retinal scans into CMR, then applied a deep regressor on the CMR to estimate left ventricle volume and predict heart failure risk.

ITI Internship 2021/06 – 2021/09
Information Technology Institute Mansoura, Egypt
Completed an AI internship focusing on machine learning and data analysis projects, gaining hands on experience with ML and DL frameworks.

Projects

Telegram voice to text

2025/10 – 2025/10

Smart bot integrates Telegram with Trello: converts voice messages into text, evaluates clarity, and automatically creates Trello cards. Uses Whisper (local or OpenRouter API) for Arabic & English transcription. Optimized for low-resource devices.

Warm lead bot

2025/10 – 2025/10

Developed a Python-based automation tool to interact with Google Sheets for managing and tracking warm leads from Reddit efficiently.

Bone Fracture Detection

2025/07 – 2025/08

Applies YOLOv8 object detection to identify bone fractures in X-ray images as part of a medical imaging challenge.

Sentiment Analysis for Mental Health

2025/04 – 2025/05

Applies NLP techniques to build sentiment analysis model to classify mental health related tweets into seven categories for detecting emotional distress and tracking public health trends.

Graduation project: Prediction of myocardial infarction using retinal scans

2022/09 – 2023/07

First place in the Dell Technologies 2023 competition among 275 submissions from 29 countries. Developing a Deep Learning Model for Reconstructing CMR Images from Retinal Images using an Image to Image Translator and Utilizing Reconstructed Images to Estimate Left Ventricle Volume for the Prevention of Heart Failure.

Courses

Data Analysis

● Inferential stats ● SQL ● Power BI ● Tableau ● Alteryx ● Business analysis track from 365DataScience

Machine Learning

● Math for ML ● DeepLearning.AI specialization ● ML Track - DataCamp ● ML Specialization - Coursera

Deep Learning

● DeepLearning.AI specialization ● CV specialization ● NLP specialization ● Probabilistic Graphical Models

Certificates

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|----------------------------------|----------------------------------|
| • DELL Technologies | • NLP |
| • Probabilistic Graphical Models | • DeepLearning.AI Specialization |
| • ML track | • Data Engineering |
| • Business Analysis | • Power BI |

Awards

1st place winner our region (Africa, Middle East, Turkey) in DELL technologies competition 2023.

Won a gold one time in Kaggle

Won a silver one time in Kaggle

Won a bronze 4 times in Kaggle.

Languages

- Arabic (Native speaker)
- English (fluent)