

Mohamed Taha *AI Engineer*



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Egypt



LinkedIn



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.

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 models for naval mine detection.

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 internship focusing on ML, 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.

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.

Book Recommendation system

2024/09 – 2024/10

Book Recommendation System using Collaborative Filtering analyzes user book interactions to provide personalized book suggestions based on reading patterns, ratings, and user similarity.

Graduation project: Prediction of myocardial infarction using retinal scans

2022/09 – 2023/07

Won 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.

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 & Deep Learning: Scikit learn, XGBoost, spark, MLOps, MLflow, AzureML, TensorFlow, Pytorch

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.

Courses

Data Analysis

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

Machine Learning

Math for ML, ML Specialization , MLOPS track, MLFlow, CI/CD, Docker, Probabilistic Graphical Models

Deep Learning

Deeplearning.AI specialization, CV specialization, NLP specialization, Developing LLMS, RAG

Certificates

- DELL Technologies
- Probabilistic Graphical Models
- ML track
- Business Analysis
- NLP
- DeepLearning.AI Specialization
- Data Engineering
- 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)