Mohamed Taha *AI Engineer*

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📍 Egypt

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● 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 Engineer 2023/10 – 2025/10
Egyptian Naval Forces
Delivered AI training to military academy students and developed a models for naval mine detection.

AI Engineer 2023/01 – 2023/09
Dell technologies program mentorship
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.

Data Analyst Intern 2022/06 – 2022/09
Egypt FWD Program from Ministry of Communications
Completed an internship focusing on Data Analysis and Business Intelligence.

AI Intern 2021/06 – 2021/09
Information Technology Institute
Completed an internship focusing on ML, gaining hands on experience with ML and DL frameworks

Projects

RAG 2025/12 – 2025/12
A complete Retrieval-Augmented Generation (RAG) pipeline implemented in Python, designed for extracting and analyzing data from complex PDF documents

Telegram voice to text 2025/10 – 2025/10
Smart bot integrates Telegram with Trello: converts voice messages into text, and automatically creates Trello cards. Uses Whisper for Arabic & English transcription.

Sentiment Analysis for Mental Health 2025/04 – 2025/05
Applies NLP to build sentiment analysis model to classify mental health related tweets into 7 categories for detecting emotional distress and tracking public health trends.

Book Recommendation system 2024/09 – 2024/10
Built it 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)