

ADHAM ASSY

AI & ML ENGINEER

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📍 Cairo , Egypt

🐙 [GITHUB](#)

🌐 [LINKEDIN](#)

PROFILE

Passionate AI, ML & Data Science Engineer with a strong software engineering background. Experienced in analyzing complex data , developing intelligent solutions, optimizing machine learning models, and building scalable software applications.

EDUCATION

9-Month Diploma (ITI) Information Technology Institute ,(MCIT) Ministry of Communications and Information Technology , AI & ML track

October – June 2025

Coursework: C, C++, MySQL , NOSQL ,Data Structure & Algorithms , Python , Linear Algebra , Probability & Statistics , Numerical Optimization , EDA , Data Preparation , Machine & Deep Learning , Cloud Infrastructure , Recommender Systems , NLP , Computer Vision , Gen AI , Big Data , pyspark , spark , MLOps .

COMPUTER SCIENCE — MANSOURA UNIVERSITY

2018 – 2022

Bachelor's degree in computer science - Software Engineering department.

GPA: 2.9 (Very Good)

PROJECTS

Graduation Project – Golden Ager (Grade: A)

- Developed a mobile app and smart bracelet to monitor elderly health via real-time vitals tracking and alerts. Enabled doctor/family monitoring and included medication reminders for proactive care.

Interview Questions Multi Agent Generator [🔗](#)

- A multi-agent AI system that generates customized technical interview questions based on a candidate's uploaded CV (PDF) and the target job title — powered by LLMs from Hugging Face, a Streamlit frontend, and Crew AI-based agents.

Arabic POS Classification Dashboard [🔗](#)

- An interactive POS tagging dashboard for Arabic text using Dash and a fine-tuned BERT model. Integrated NLP with Transformers and visualized linguistic features with Plotly in a RTL UI.

Hate speech text classification on twitter dataset [🔗](#)

- Text classification pipeline to detect hate speech, offensive, and neutral content on Twitter. Implemented traditional ML and deep learning models using TF-IDF, Word2Vec, Glove, and FastText.

Text Clustering on People Wikipedia Dataset

- Streamlit app for clustering Wikipedia biographies using TF-IDF, K-Means, and hierarchical clustering. Visualized insights using PCA and dendrograms to reveal profession-based groupings.

Obesity Prediction – A Machine Learning Approach

- Machine learning pipelines to classify obesity levels with preprocessing and model tuning. Applied Random Forest, Gradient Boosting, and LightGBM for optimal performance

Deep Learning Projects

- **Datasets:** Cifar-10, Mnist, Credit Score, Potato Leaf Disease, Pets , Chest CT Scans.
- **Models:** ANNs , CNNs(ResNet, VGG, U-Net , InceptionV3) , RNNs(LSTM, CONVLSTM , GRU)

Machine Learning Projects

- **Datasets:** House Pricing , Credit Card Market Segmentation , Banking Credit Score.
- **Models:** Linear Regression ,Logistic Regression ,SVM ,Decision Tree ,KMeans , DBScan , GMM.

INTERNSHIPS

- **Python for Machine Learning and Data Science**
Consulting of Computers and Information Center (CCIC)
- **Front End {HTML - CSS - Javascript - Bootstrap - Vue.js}**
Consulting of Computers and Information Center (CCIC)
- **Digital Marketing Planning and Management and Consumer behavior**
Consulting of Computers and Information Center (CCIC)

TECHNICAL SKILLS

Programming Languages:

C/C++, Python, SQL , NoSQL.

Data Management:

MySQL, MongoDB.

Data Analysis and Visualization:

Data Exploration, Data Processing, NumPy, Pandas, Matplotlib, Seaborn, Plotly.

Machine Learning Techniques:

Supervised & Unsupervised Algorithms.

Mathematics and Statistics:

Knowledge of linear algebra, probability theory, Numerical Optimization and Statistics.

Cloud & Linux :

Google Cloud Platform, AWS, Linux, Git.

PERSONAL SKILLS

Leadership

Work under pressure

Team collaboration

Communication Skills

Problem Solving

Negotiation Skills

Fast Learner

Adaptability

Marketing skills

ADDITIONAL INFORMATION

LANGAUGES

-ARABIC | NATIVE

-ENGLISH | FLUENT

NATIONALITY

-EGYPTIAN

MILITARY SERVICE

-COMPLETED *May 2023 - May 2024*