

# Nagwa Mohamed M.Attia .

## *Junior AI & Machine Learning Engineer*

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☎ +20 1553998973

📍 Cairo (easy to relocate).

🌐 LinkedIn

🐙 GitHub

🏆 Kaggle

### Profile

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AI&Machine Learning Engineer with strong experience in applied machine learning, data analytics, and generative AI. Skilled in developing scalable AI solutions with a focus on automation and real-world impact. Proficient in TensorFlow, Scikit-learn, and deep learning tools. Collaborative, results-oriented, and dedicated to solving meaningful problems through data-driven approaches.

### Education

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|-------------------|---|
| 10/2024 – 07/2025 | <b>9-Month Diploma (ITI) Information Technology Institute ,(MCIT) Ministry of Communications and Information Technology , AI track ,Mansoura Branch.</b>              |
| 10/2020 – 05/2024 | <b>Bachelor's degree in computers and informatics Faculty of Computers and Informatics, Zagazig University Medical Informatics Department, GPA: 3.56 (Excellent).</b> |

### Internships

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|-------------------|---|
| 04/2024 – 10/2024 | <b>Machine Learning Trainee at Digital Egypt Pioneers Initiative</b> ☑          |
| 08/2022 – 02/2023 | <b>Data Analyst Track (ITI-Tec-Leaps) from (August 2022 to February 2023)</b> ☑ |

### Technical skills:

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| • Programming Languages: Python, C++, C.                   | • Databases: MySQL, MongoDB, SQL Server.   |
| • Data Analysis & Visualization: Power BI, Tableau, Excel. | • ML & DL Frameworks: TensorFlow, Scikit-learn, OpenCV, Hugging Face Transformers. |
| • Other: Linux, OOP, Data Structures, Algorithms.          |  |

### Projects

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#### **AI\_Powered\_Diet\_Planner** ☑

multi-agent AI system using CrewAI, integrating three specialized agents to collaboratively generate personalized diet plans. Each agent handled a specific task (e.g., data analysis, meal recommendation, validation), and coordination was powered by Gemini Flash for fast, context-aware reasoning.

#### **Smart Recruiter Assistant** ☑

Smart Recruiter Assistant named designed to aid HR professionals with AI. It provides a virtual assistant for recruiters, offering features such as CV uploads, a Chatbot for Q&A, Matching & Summarizer capabilities, a Recommender system, and a Dashboard.

#### **Movie Recommendation System** ☑

A collaborative filtering-based movie recommendation system built using Surprise and other ML libraries. The project explores both memory-based and model-based approaches to suggest relevant movies based on user preferences and rating patterns. Includes data preprocessing, model evaluation (e.g., RMSE, MAE), and visualization of recommendation performanc

**Obesity Risk Prediction** [↗](#)

*Built ML models (Random Forest, SVM, XGBoost) to predict obesity risk from lifestyle data, enabling early healthcare intervention.*

**Arabic POS\_Tagging** [↗](#)

*Fine-tuned BERT (asafaya/bert-base-arabic) for POS tagging using token classification and evaluated with segeval metrics.*

**Image-Analysis-Classification-Segmentation** [↗](#)

*Built deep learning pipelines using ResNet50-based U-Net for cat vs dog classification and a custom U-Net for lung image segmentation.*

**Weather image classification** [↗](#)

*Implemented transfer learning using pretrained CNNs (DenseNet121, ResNet50) to classify weather conditions from image data.*

**Courses**

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- **Career Essentials in Data Analysis from Microsoft and LinkedIn.** [↗](#)
- **Google Data Analytics Professional Certificate.** [↗](#)

**Personal Skills**

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- Analytical and problem-solving mindset
- Effective communication and presentation skills.
- Highly motivated for remote work opportunities.
- Fast learner, open to feedback.
- Team player with a collaborative mindset.

**Languages**

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<b>English</b>	<b>Arabic</b>
B2 (Upper-Intermediate)	Native