

# Aya Nabil AI Engineer

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## SUMMARY

**AI & Machine Learning Engineer** with experience in **computer vision, NLP, and LLMs**. Delivered production-ready AI solutions at **MAG Growth, Omdena, SureStart, and EGSA**, optimizing systems for efficiency and scalability. Skilled in **Python, PyTorch, TensorFlow, LangChain, Azure** and **Docker** with a strong track record in **research, mentoring, and cross-functional collaboration**.

## Professional Experience

### AI Engineer

*MAG GROWTH*

Aug 2025 – Present  
Remote

- Developed the Maya AI Agent, enhancing client engagement through intelligent conversational systems.
- Integrated dynamic datasets with CRM platforms, automating workflows and improving operational efficiency.

### AI Instructor

*Arabian Academy*

Jul 2025 – Present  
Alexandria, Egypt

- Developed interactive course materials and conducted hands-on coding sessions to enhance student engagement.
- Mentored students through real-world projects, preparing them for careers in AI and data-driven fields.

### Ai Researcher

*Omdena*

Dec 2024 – Apr 2025  
Remote

- Built and optimized ML models for real-world challenges, improving project accuracy by 15%.
- Performed data analysis, feature engineering, and literature reviews.
- Boosted processing efficiency by 20% through model refinement.

### Ai Intern

*SureStart*

Sep 2023 – Feb 2024  
Remote

- Developed a real-time moderation bot for Discord using NLP and ML.
- Increased classification accuracy by 25% via model tuning and text preprocessing.

## Skills

### Technical Skills

- Programming & Tools:  
Python, C++, R, SQL, Git, OpenAI API, Hugging Face
- Libraries & Frameworks:  
PyTorch, TensorFlow, Keras, Scikit-learn, Transformers, JAX, SciPy, OpenCV, Flask, FastAPI, LangCha
- AI & ML Techniques:  
Generative AI, LLMs, NLP, Computer Vision, Model Deployment, MLOps, Feature Engineering
- Neural Architectures:  
CNNs, RNNs, LSTMs, Transformers, BERT, ResNet, U-Net, Attention Mechanisms
- Classical ML Algorithms:  
Decision Trees, Random Forest, KNN, Linear/Logistic Regression, Genetic Algorithms
- Cloud & DevOps:  
Microsoft Azure, AWS, GCP, Docker

### Soft skills

- Problem-Solving & Critical Thinking
- Data Storytelling & Communication
- Research & Analytical Skills
- Teamwork & Cross-Functional Collaboration
- Mentoring & Technical Training

## Education

### Bachelor of Computing and Data Science

Alexandria University

CGPA: 3.49 / 4.0

Major: Computing and Data Science

Graduation Project : Real-time Facial Recognition System with Adaptive Security and Emergency Response

Oct 2021 – Jun 2025

Alexandria, Egypt

## Projects

### Graduation Project: Leap smart control system

Jan 2024 – Jun 2025

Facial Recognition Security System

- Built a real-time face recognition system with voice and expression analysis.
- Integrated anomaly detection and emergency alert features for adaptive security.

### E-Commerce ML Data Engineering Pipeline

Jun 2025 – Jun 2025

Tools: dbt, Snowflake, Apache Airflow, scikit-learn, Python

- Built a complete data pipeline for an e-commerce platform, integrating **machine learning predictions** with **Snowflake-based ELT workflows** and transforming raw user and transaction data into enriched datasets for revenue forecasting.
- Orchestrated data ingestion, model training, and batch scoring using **Apache Airflow**, and applied dbt to create staging layers, marts, and explainable ML features for business reporting.

### AI Storyboard Weaver

Jan 2025 – 2025

Scenario generator

- Created a Python tool using DeepSeek LLM and DALL-E 3 API to generate storyboards with scenes, dialogues, and mood analysis, integrated with Jupyter.
- Added prompt sanitization for Azure compliance, organized outputs, and supported styles like Cinematic and Anime.

### Identifying Diseases in Chest X-Rays & COVID-19 Detection

Oct 2024 – Jan 2025

- Focused on Tuberculosis detection using CNNs applied to chest X-ray images.
- Enhanced model performance by 25% through advanced preprocessing and optimization.

### Predict CO2 Emissions in Rwanda

Sep 2023 – Oct 2023

Kaggle competition

- Description: Predict CO2 emissions based on environmental and geographical features.
- Results: Achieved a 28.09473 score, ranking in the top 24%.

## Certificates

### Camera and Imaging

Colombia university

### Machine learning specialization

Stanford University

### Math for Machine learning and Data science

Stanford University

### Applied Data Science

IBM

## Languages

### Arabic

Native

### English

B2: Upper Intermediate

## Volunteering

### Microsoft learn

2024 – present

Student Ambassador

### YLY Ministry of Youth and Sport

2022 – 2024

Member

Alexandria, Egypt

### Aseer Al-Kotob

2022 – 2025

Community Team Leader

Alexandria, Egypt

### Robotics

2024 – 2024

Machine Learning Instructor