

Aya Nabil *Data Scientist & AI Engineer*

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SUMMARY

Data scientist and AI engineer with experience in computer vision, NLP, and LLMs. Delivered production-ready AI solutions at MAG Growth, Omdena, and SureStart, 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.

Experience

AI Engineer

MAG GROWTH

Aug 2025 – Present
Remote

- Rebuilt and enhanced the Maya AI Agent, migrating it from JavaScript to Python and improving human-like conversational abilities.
- Integrated the agent with Go High Level, automating client interactions and meeting scheduling for smoother marketing operations.

AI Instructor

Arabian Academy

Jul 2025 – Oct 2025
Alexandria, Egypt

- Designed and delivered a 100-hour AI training program for Pharos University students, combining theory with practical coding sessions.
- Created and taught hands-on notebooks and projects, strengthening students' applied skills in AI and machine learning.

Ai Researcher

Omdena

Dec 2024 – Apr 2025
Remote

- Conducted applied AI and ML research projects with international teams through Omdena, addressing real-world challenges across diverse domains.
- Collaborated on data-driven solutions, contributing to model development, analysis, and experimentation for impactful global initiatives.

Ai Intern

SureStart

Sep 2023 – Feb 2024
Remote

- Developed an NLP-based moderation bot for Discord, detecting and filtering abusive or toxic language in real time.

Machine learning Intern

EGSA — Egyptian Space Agency

Jun 2022 – Sep 2023
Alexandria, Egypt

- Analyzed satellite imagery using machine learning to generate predictive insights from remote sensing data.

Technical Skills

- **Libraries & Frameworks:** PyTorch, TensorFlow, Keras, Scikit-learn, Transformers, JAX, SciPy, OpenCV, Flask, FastAPI, LangChain, CrewAI
- **AI & ML Techniques:** Generative AI, Large Language Models (LLMs), Natural Language Processing (NLP), Computer Vision, Model Deployment, MLOps, Feature Engineering
- **Cloud & DevOps:** Azure, AWS, Docker, GitHub Codespaces, Jenkins,
- **Databases:** MySQL, Postgres, Snowflake, MongoDB, SQLAlchemy

Education

Bachelor of Computing and Data Science

Alexandria University

Oct 2021 – Jun 2025
Alexandria, Egypt

CGPA: 3.45 / 4.0

Major: Computing and Data Science

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

Projects

E-Commerce ML Data Engineering Pipeline [🔗](#)

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.

AI Storyboard Weaver (Scenario generator) [🔗](#)

Jan 2025

Tools: *DeepSeek LLM, DALL-E 3 API, Azure Functions, React*

- 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

Tools: *TensorFlow, Keras, OpenCV, NumPy & Pandas, Matplotlib, Streamlit*

- 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 [🔗](#)

Oct 2023

Tools: *Tools: Time Series, NumPy, Pandas, Matplotlib*

- 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 [🔗](#)

Student Ambassador

Jan 2024 – present

Remote

Robotics

Machine Learning Instructor

Aug 2024 – Dec 2024

Alexandria, Egypt