Ayatullah Nabil *Data Scientist & AI Engineer*

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SUMMARY

A data scientist and AI engineer with 3+ years of experience in applied AI, specializing in LLM systems, and real-time ML applications. Proven track record delivering production-grade AI solutions and leading AI education programs. Passionate about research and building impactful AI systems for public good.

Education

Bachelor of Computing and Data Science   Oct 2021 – Jun 2025
Alexandria University   Alexandria, Egypt
  CGPA: 3.45 / 4.0 (top 20%)
  Equivalent Grade: Very Good
  Major: Computing and Data Science
  Graduation Project 🔗 : Real-time Facial Recognition System with Adaptive Security and Emergency Response

Experience

AI Engineer   Dec 2025 – Present
Pixonal 🔗   Giza, Egypt
  – Led the onboarding of pre-trained ML models into MLflow Model Registry, ensuring correct versioning, metadata consistency, and readiness for platform-level evaluation.
  – Owned the validation workflow for model upload, testing, and inference behavior, enabling reliable demos and accelerating feature verification for upcoming releases.

AI Engineer   Jul 2025 – Dec 2025
MAG GROWTH 🔗   Remote
  – Rebuilt and migrated the Maya AI agent from JavaScript to Python, improving response accuracy and reducing latency by 25%.
  – Handled 100+ user interactions weekly
  – Integrated the agent with Go High Level, automating client interactions and meeting scheduling for smoother marketing operations.

AI Instructor   Jul 2025 – Oct 2025
Arabian Academy 🔗   Alexandria, Egypt
  – Designed and delivered a 100-hour AI training program for Pharos University students, combining theory with practical coding sessions.
  – Taught 80+ students across 100 hours of AI training
  – Created and taught hands-on notebooks and projects, strengthening students' applied skills in AI and machine learning.

AI Researcher   Dec 2024 – Apr 2025
Omdena 🔗   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   Sep 2023 – Feb 2024
SureStart 🔗   Remote
  – Developed an NLP-based moderation bot for Discord, detecting and filtering abusive or toxic language in real time.

Machine learning Intern   Jun 2022 – Sep 2023
EGSA — Egyptian Space Agency 🔗   Alexandria, Egypt
  – Analyzed satellite imagery using machine learning to generate predictive insights from remote sensing data.
  – Increased model accuracuy by 15%

Projects

Swan Quote Generator ✐   Oct 2025 – Nov 2025
Tools: *FastAPI, Pydantic, Google Generative AI, Mangum, React*
  A powerful full-stack AI-powered quote generator with React frontend and FastAPI backend.
  Generate creative quotes on demand using Google's Gemini AI.

Implements the Transformer architecture ✐   Nov 2025
Tools: *Pure PyTorch*
  Implements the complete Transformer architecture from scratch in PyTorch, faithfully following
  the (Attention Is All You Need) paper's specifications for educational and research purposes.

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.

Vloomeo (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%.

Technical Skills

- **Programming & ML Tools:** Python, NumPy, Pandas, SciPy, Scikit-learn, JAX

- **Deep Learning & AI Frameworks:** PyTorch, TensorFlow, Keras, Transformers, OpenCV

- **LLM & Agent Frameworks:** LangChain, CrewAI, FastAPI, Flask

- **Cloud & DevOps:** Azure, AWS, Docker, GitHub Codespaces, Jenkins

- **Databases:** MySQL, PostgreSQL, Snowflake, MongoDB, SQLAlchemy

- **Techniques:** Computer Vision, NLP, LLMs, Generative AI, Feature Engineering, MLOps, Model Deployment

Certificates

Machine learning specialization ✐	**Math for ML and Data science** ✐	**Applied Data Science** ✐
Stanford University	Stanford University	IBM

Languages

Arabic	**English**
Native	B2: Upper Intermediate

Volunteering

Microsoft learn ✐   Jan 2024 – present
Beta Student Ambassador   Remote

Aseer Al-Kotob ✐   2022 – 2025
Community Team Leader   Alexandria, Egypt

Robotics   Aug 2024 – Dec 2024
Machine Learning Instructor   Alexandria, Egypt

YLY Ministry of Youth and Sport   Aug 2022 – Aug 2024
Member   Alexandria, Egypt