

# Ayatullah Nabil

(Machine Learning & AI Engineer)

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## EDUCATION

**B.Sc. Computing and Data Science** | Alexandria University 2021 – 2025

- CGPA: 3.49/4.0 | Major: Computing and Data Science
- Graduation Project: Real-time Facial Recognition System with Adaptive Security and Emergency Response

## EXPERIENCE

**Machine Learning Research Intern** | Omdena 2024 – 2025

- Conducted statistical analysis and literature reviews, improving project accuracy by **15%**.
- Developed ML models and extracted insights from large datasets.
- Improved processing efficiency by **20%** through feature engineering and model optimization.

**AI Intern** | SureStart 2023 – 2024

- Developed an AI-powered Discord bot for real-time detection and removal of abusive and bullying language.
- Built machine learning models to enhance the bot's text classification accuracy, achieving a **25%** improvement in moderation effectiveness.

**Machine Learning Intern** | Egyptian Space Agency (EGSA) 2022 – 2023

- Designed satellite imagery models to support national prediction systems.

## PROJECTS

**Facial Recognition Security System** | Graduation Project, Alexandria University 2025

- Real-time facial recognition with expression and voice analysis.
- Adaptive anomaly detection and emergency alert system.

**COVID-19 and Chest X-ray Diagnosis** | Omdena/Myanmar Chapter 2024

- Applied CNNs and preprocessing for improved chest disease detection.
- Achieved 25% performance improvement through optimization.

**Food Prices Prediction in Nigeria** | Omdena/Dagshub 2023

- Analyzed 5 years of historical food price data, identified trends and seasonality.
- Improved forecasting accuracy by 20% using ML models.

## SKILLS

**Artificial Intelligence** | Languages & Frameworks

- Programming & Tools: Python, C++, R, SQL, Git, OpenAI API, Hugging Face
- Libraries/Frameworks: PyTorch, TensorFlow, Keras, Scikit-Learn, Transformers, JAX, SciPy, OpenCV, Flask, FastAPI

**Artificial Intelligence** | Techniques & Algorithms

- Generative AI, Large Language Models (LLMs), Natural Language Processing (NLP), Computer Vision
- Neural Architectures: CNNs, RNNs, LSTMs, Transformers, Attention Mechanisms, BERT, U-Net, ResNet
- Classical ML: Decision Trees, Random Forests, KNN, Linear/Logistic Regression, Genetic Algorithms

**Machine Learning & MLOps** | Tools & Practices

- Platforms & Containerization: Microsoft Azure, AWS, GCP, Docker
- MLOps: Model Deployment, ML/DL Pipeline Development

**Soft Skills** | Professional Competencies

- Data Storytelling, Cross-Functional Collaboration, Problem-Solving, Research & Analysis

## CERTIFICATIONS

**Deep Learning Specialization** | DeepLearning.AI In Progress

**Big Data Engineer Specialization** | UC San Diego In Progress

**Mathematics for Machine Learning and Data Science** | DeepLearning.AI (Verify Credential) Jan 25, 2024

**Machine Learning Specialization** | DeepLearning.AI, Stanford University (Verify Credential) Nov 28, 2023

## VOLUNTEERING

**Ambassador** | Microsoft Learn Student Ambassadors Program 2024 – Present

- Organized events and workshops on cloud computing, machine learning, and Microsoft technologies.
- Mentored students in technical sessions and led hackathon preparation activities.

**Mentor** | Kaggle Community & Online Forums 2023 – Present

- Provided feedback and guidance on machine learning competitions and notebooks.
- Helped junior data scientists with problem-solving and model tuning strategies.

**Machine Learning Instructor** | Robotics Team – Alexandria University 2024

- Taught machine learning foundations and supervised deep learning projects.
- Guided hands-on implementation of ML algorithms for automation tasks.

## LANGUAGES

Arabic | Native

English | B2 – Upper Intermediate