

AHMED ASHRAF

✉ ahmed.radwan@gu.edu.eg ☎ 01110080310 📄 in/ahmed-ashraf-aam

SUMMARY

Artificial Intelligence Engineer with hands-on experience in deploying machine learning, NLP, computer vision, and generative AI solutions. Completed top-tier internships and certifications, delivering real-world AI applications with measurable impact.

EDUCATION

Bachelor of Engineering - BE, Artificial Intelligence

Galala University, Egypt, 2025 | GPA: 2.93

EXPERIENCE

Microsoft Machine Learning Engineer

Microsoft & Ministry of Communications and Information Technology

April 2024 - October 2024, Cairo, Egypt · Hybrid

- Built and deployed end-to-end AI systems on Azure, including a text generation pipeline using NLP and GANs with full MLOps integration.
- Enhanced system efficiency through optimization of cloud pipelines and resources; supported deployment of production-grade models with real-time monitoring.
- Recognized with the **Excellence Award** by Dr. Amr Talaat, Minister of Communications and Information Technology, for outstanding performance and top ranking in the program.

AI and IoT Trainee

National Telecommunication Institute (NTI)

August 2023 - August 2023, Remote

- Completed **120 hours** of training in AI applications and embedded systems.
- Developed a mini-project integrating IoT sensor data with machine learning classification for real-time anomaly detection.
- Gained practical experience in edge computing and deployment using embedded platforms and microcontrollers.

AI and DS Intern

CYSHIELD

July 2022 - September 2022, Cairo, Egypt, On-site

- Supported an **OCR** pipeline for digitizing Arabic-language newspapers, validating the quality of scanned article outputs.
- Performed manual text review and flagged extraction issues, leading to noticeable improvements in OCR accuracy.
- Collaborated with the AI team to enhance document segmentation and recognition through feedback-driven iteration.

PROJECTS

Real-Time Egyptian Sign Language Translator (Graduation Project)

- Engineered a real-time Egyptian Sign Language translator using **MediaPipe**, deep learning, and 3D pose/hand landmarks.
- Curated and annotated a custom dataset of **6,000+ gesture samples**, enabling precise dynamic sign recognition.
- Achieved **96%+ model accuracy** through end-to-end pipeline development, including preprocessing, model training, and evaluation.
- Awarded an **A+ grade** for technical excellence, innovative data acquisition, and high-impact contribution to accessibility.

AI Peer Review Assistant

- Developed an intelligent tool that mimics peer reviewers to help researchers **improve academic writing** using BERT, T5, and GPT-2 models.
- Trained the system on **ICLR peer review data** to detect weak phrasing, informal tone, and unclear structure; provided context-aware rewriting suggestions.
- Built a modular web app using **Streamlit**, Hugging Face Transformers, and NLTK for real-time, user-friendly feedback.

Nutrition-Aware Food Recommender Engine

- Built a **hybrid recommendation system** to help users discover recipes aligned with their dietary needs and preferences.
- Combined content-based and SVD-based collaborative filtering, applying nutritional constraints and cross-validation (**RMSE \approx 1.23**).

CERTIFICATIONS

AWS Academy Graduate - AWS Academy Machine Learning Foundations

Amazon Web Services (AWS) • 2025

Generative AI with Large Language Models

Amazon Web Services (AWS) • 2025

Microsoft Machine Learning Engineer

Microsoft AI • 2024

Business English Track

OTO Courses • 2024

Generative AI for Everyone

DeepLearning.AI • 2024

Introduction to Generative AI

Google Cloud Skills Boost • 2024

Supervised Machine Learning: Regression and Classification

DeepLearning.AI • 2023

HCIA-AI V3.0

Huawei • 2023

Python Data Structures

University of Michigan • 2023

Data Analysis Professional

Udacity • 2022

PUBLICATIONS

Smart CropGuard: Innovating Disease Detection with InceptionCNN and LSTM Peephole Networks

International Telecommunications Conference (ITC-Egypt), IEEE, 2024

SKILLS

Core AI & ML Expertise: Machine Learning, Deep Learning, Natural Language Processing (NLP), Computer Vision, Generative AI, GANs, Pose & Hand Landmark Detection

MLOps & Cloud Platforms: Microsoft Azure, Azure Machine Learning Studio, Google Colab, MLOps, End-to-End Model Deployment

Data Science & Analysis: Data Analysis, Data Engineering, Feature Engineering, OCR Pipelines, Statistical Modeling

Tools & Technologies: Python, TensorFlow, Keras, PyTorch, OpenCV, MediaPipe, scikit-learn, pandas, NumPy, Streamlit, Hugging Face Transformers, Prompt

Engineering, LangChain, OpenAI API, Gradio

Soft Skills: Problem Solving, Critical & Creative Thinking, Time Management, Team Collaboration, Project Management, Attention to Detail, Research Skills, Communication, Adaptability, Presentation Skills, Self-Learning, Analytical Thinking