

Ahmed Rizk Gawish

Data Scientist and Machine Learning Engineer

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Faculty of Computers and Information - Kafr El Sheikh University | Expected Graduation: May 2026

PROFESSIONAL SUMMARY

Machine Learning Engineer and Data Scientist with 2+ years of experience in Machine Learning, Deep Learning, NLP, and Generative AI. Strong in data analysis and automation, with hands-on experience fine-tuning Large Language Models (LLMs) and building end-to-end, scalable ML pipelines using Python, TensorFlow, and MLOps practices.

EXPERIENCE

- Generative AI Trainee** July 2025 – September 2025
NVIDIA - ITI GenAI Program Remote
 - Fine-tuned 3+ Large Language Models (LLMs) such as GPT, BERT, and T5 for NLP tasks, improving performance by 15% using Hugging Face Transformers.
 - Optimized inference speed by 40% via quantization and pruning, reducing deployment costs by 30%.
 - Built 2 production-ready Generative AI pipelines handling 10,000+ daily requests with 99.5% uptime.
- Machine Learning Engineer Trainee** April 2025 – November 2025
DEPI (Digital Egypt Pioneers Initiative) Remote
 - Deployed 5+ ML models with MLflow, automating versioning and monitoring, cutting deployment time by 60%.
 - Processed 50,000+ data samples and engineered 20+ features, boosting model accuracy by 12%.
 - Implemented Transformer-based models (BERT, RoBERTa) achieving 92% accuracy on NLP tasks.
- Machine Learning Intern** July 2025 – September 2025
NTI (National Telecommunication Institute) Remote
 - Applied 8+ ML algorithms (Random Forest, SVM, K-Means, DBSCAN) on 30,000+ samples across 5 domains.
 - Improved accuracy by 18% via feature engineering and hyperparameter optimization.
- Machine Learning Head** September 2025 – Present
IEEE KFS Student Branch Kafr El Sheikh, Egypt
 - Led Machine Learning training for 35+ students, resulting in 12+ student projects deployed to production.
 - Designed 8-week hands-on ML curriculum covering 15+ algorithms with 90% student satisfaction.

TECHNICAL SKILLS

Programming & Scripting: Python, SQL, C++, Bash

Python Libraries: NumPy, Pandas, Scikit-learn, Matplotlib, Seaborn

Machine Learning & Deep Learning: Scikit-learn, XGBoost, LightGBM, CatBoost, TensorFlow, Keras, PyTorch, CNN, RNN, LSTM, Transfer Learning, Fine-tuning

NLP & Generative AI: Hugging Face Transformers, BERT, GPT, T5, spaCy, Prompt Engineering, RAG (Retrieval-Augmented Generation)

Automation & MLOps: n8n, Docker, MLflow, CI/CD, Streamlit, FastAPI

Databases: MySQL, MongoDB

Software Engineering: OOP, Data Structures & Algorithms, Version Control (Git)

PROJECTS

- AI Agents for Product Search** Python, CrewAI, GPT-4o
Generative AI / Multi-Agent Systems
 - Automated search across 10+ platforms using Multi-Agent AI, reducing manual effort by 80% and handling 5,000+ daily queries.
- Land Classification (EuroSAT)** TensorFlow, OpenCV, Python
Deep Learning / Computer Vision
 - Developed a CNN pipeline achieving 94% accuracy in classifying 10 land-use types using Sentinel-2 satellite imagery.
- Multi-Disease Prediction App** Streamlit, Scikit-learn, Docker
Machine Learning / MLOps
 - Built a health-tech web app with 85%+ accuracy; containerized with Docker to support 100+ daily API predictions.