

# 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.