Mennatullah Khaled Ebrahim

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About

Generative AI active self-learner seeking research internship. Hands-on deep learning & generative AI experience. Leading graduation project on bias mitigation in diffusion-based virtual try-on.

Education

El-Shorouk Academy — Cairo, Egypt
Bachelor's Degree in Computer Science, GPA: 3.8/4.0 — *Expected Graduation: 2026*

Experience

Digital Egypt Pioneers Initiative (DEPI) — Cairo, Egypt
Team Lead – Generative AI Professional Track — *Nov 2024 – Present*

- Elected Team Lead in a 6-month intensive program on Vision Transformers, generative models, RAG systems, and Agentic AI.

Information Technology Institute (ITI) — Cairo, Egypt
AI Trainee — *Aug 2024 – Sep 2024*

- Completed intensive training in AI/ML/DL fundamentals and computer vision. Earned NVIDIA & Kaggle certifications in Deep Learning and Computer Vision.

Projects

Dual-Track Virtual Try-On (VTON) System – Graduation Project — Oct 2025 – Present
Supervised by: Dr. Ahmed Kaboudan | Insights from Dr. Abdulrahman at KAUST

- Addressing representation bias in generative models for cultural garments (Hijab) and diverse skin tones via dual-track approach.
- Track 1: Scalable inference backend (Clean Architecture). Track 2: FLUX.1 diffusion model fine-tuning for latent space consistency.

Deep Learning Implementations & Experiments — 2025 – Ongoing
GitHub: PyTorch | DL-Implementations

- Hands-on PyTorch projects: Implemented ResNet-50 baseline for FoodVision image classification; exploring Vision Transformers.
- Broader DL architectures: Notebooks on CNNs (LeNet, AlexNet, VGG, ResNet), transfer learning, data loading, and training loops.

Machine Learning Algorithms from Scratch — 2024–2025
GitHub: github.com/0xmennatullah/ML-Implementation

- From-scratch implementations in Python: SVM, Decision Trees, Random Forest, K-Means, PCA, XGBoost.

Certifications & Relevant Coursework

Getting Started with Deep Learning – NVIDIA DLI — *Sep 2025*
AI Professional Training – Information Technology Institute (ITI) — *Aug–Sep 2025*
Machine Learning Specialization – DeepLearning.AI / Coursera — *Dec 2024–Apr 2025*
Deep Learning for Computer Vision (Self-Study) – UMICH EECS 498-007 — *Jul–Aug 2025*
Hands-On ML with Scikit-Learn, Keras & TensorFlow (Self-Study) – Aurélien Géron — *Oct 2025–Present*

Technical Skills

Programming: Python, C#, Jupyter, VS Code
Data & ML: NumPy, Pandas, scikit-learn, Matplotlib, Regression, Classification, Clustering, XGBoost
Deep Learning: PyTorch, TensorFlow, CNNs, Transfer Learning, Vision Transformers, Diffusion Models
Tools: Hugging Face, ComfyUI, LoRA
Soft Skills: Team Leadership, Code Review, Research Coordination