

# 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

Bachelor's Degree in Computer Science, GPA: 3.8/4.0

Cairo, Egypt

Expected Graduation: 2026

## EXPERIENCE

### Digital Egypt Pioneers Initiative (DEPI)

Team Lead – Generative AI Professional Track

Cairo, Egypt

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)

AI Trainee

Cairo, Egypt

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

Student Researcher / Lead Developer | Dr. Ahmed Kaboudan (KAUST insights)

- 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