

Youssef Ashraf Abdelhamid

Computer Science Undergraduate | Data Engineering & AI Enthusiast

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Professional Summary

Motivated Computer Science undergraduate (Class of 2028) with a strong foundation in **Data Engineering, Artificial Intelligence, and Embedded Systems**. Currently expanding expertise through the **Digital Egypt Pioneers Initiative (DEPI)**. Skilled in Python, Linux Administration, and building open-source educational resources. Seeking a challenging internship to leverage technical skills in building intelligent, hardware-integrated software solutions.

Education

Bachelor of Computer Science Faculty of Computer Science, Nahda University

- **Status:** Undergraduate Student (Second Year)
- **Expected Graduation:** 2028

Experience

Data Engineering Trainee Digital Egypt Pioneers Initiative (DEPI) | Dec 2025 – Present

- Selected for the highly competitive Data Engineering track within the national initiative.
- Gaining hands-on experience in building data pipelines, data modeling, and handling large datasets.
- Applying Python, SQL, and modern data tools to solve real-world data challenges.

Technical Skills

- **Programming Languages:** Python (Data Science & OOP), C++ (Embedded Systems focus), C, SQL, Bash Scripting.
- **Data Engineering & AI:** NumPy, Pandas, Scikit-learn, Data Analysis Pipelines.
- **Embedded Systems:** Arduino Programming, Sensors & Motors Control, Bluetooth Communication (HC-05/06), LCD Interfacing.
- **Systems & Tools:** Linux (Fedora Workstation Expert), Git & GitHub (Version Control), Docker (Basics), VS Code.

Projects

1. AI & Data Science Comprehensive Roadmap (Open Source)

- Created and currently maintaining a structured, open-source learning path on GitHub for AI and Data Science enthusiasts.
- Consolidated resources from foundational mathematics to advanced Deep Learning concepts.

2. Global Cuisine Prediction System

- Developed an advanced AI tool to predict international dishes based on large recipe databases and diverse features.
- Designed an interactive user interface to ensure a seamless user experience.

3. Interactive Decision-Tree Game

- Built a console application utilizing smart binary decision trees to predict user choices.
- Implemented adaptive learning algorithms to update datasets based on incorrect guesses, enhancing accuracy over time.

4. Linux & CS Educational Guides

- Authored a "Linux for Beginners" guide tailored for system administration, tested on Fedora environment.
- Developed bilingual Computer Science guides simplifying complex topics like Cloud Computing and DevOps.

Volunteering

Active Member *IEEE Nahda University Student Branch* | 2024 – Present

- Participating in technical workshops and organizing community events focused on technology and engineering.

Certificates & Courses

- **Data Engineering Track** – Digital Egypt Pioneers Initiative (DEPI) (*In Progress*)
- **Advanced Arduino Course** – Engineering Office ROBOTECH (Sept 2025)
 - *Completed with Excellent Rating. Covered C/C++, Sensors, Motors, and Bluetooth.*
- **Python Programming Level 1 Workshop** – IEEE Nahda University (2025)

Soft Skills

- Problem Solving & Logical Thinking
- Teamwork & Communication
- Time Management
- Adaptability & Continuous Learning

Languages

- **Arabic:** Native
- **English:** Professional Working Proficiency (Reading & Writing)