

Youssef Yasser Elsayed Hamed

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PROFILE

Computer Science undergraduate at Cairo University specializing in Artificial Intelligence and Machine Learning. Backed by 15 certifications in technical and soft skills, combining a problem-solving mindset with an entrepreneurial drive to build creative, impactful projects. Experienced in developing end-to-end ML solutions and driving measurable performance optimizations.

EDUCATION

Cairo University

Bachelor's in Computer Science and Artificial Intelligence

Giza, Egypt

Sep. 2023 – Sep. 2027

EXPERIENCE

Machine Learning Intern

April 2026 – May 2026

Code Alpha

Remote

- Developed end-to-end Machine Learning pipelines for 3 real-world applications, improving project delivery timelines by 15%.
- Engineered data preprocessing workflows using 10,000+ records, improving pipeline efficiency by 70%.
- Optimized classification and regression models using cross-validation, achieving 94% peak accuracy.
- Accelerated data processing workflows using Pandas and NumPy, reducing overall processing time by 30%.

Competitive Programmer

July 2024

Egyptian Collegiate Programming Contest (ECPC)

Alexandria, Egypt

- Engineered optimized algorithmic solutions in C++ under strict time constraints, applying advanced data structures to solve complex computational problems.
- Collaborated strategically within a high-pressure team environment to prioritize problem selection, rapidly debug logical errors, and maximize overall competitive performance.

PROJECTS

Traffic Sign Image Classifier | Python, PCA, KNN, Naive Bayes, MobileNet V2

Feb. 2026 – March 2026

- Traffic Sign Classification:** Developed a traffic sign classification system for **43** classes using 39,000+ images, achieving **98%** accuracy road sign categories using the GTSRB dataset, analyzing over **39,000** training images.
- Data Processing:** Conducted comprehensive data exploration, preprocessing, and applied PCA to reduce dimensionality while successfully retaining **95%** variance, improving training efficiency by **60%**.
- Model Implementation:** Trained classical ML baselines (KNN, Naive Bayes) and optimized final classification accuracy by fine-tuning a MobileNet V2 convolutional neural network, boosting final accuracy to **98%**.

CERTIFICATES & AWARDS

Intermediate Machine Learning | Kaggle

March 2026

Deep Learning Specialization | DeepLearning.AI (Andrew NG)

Feb. 2026

Intro to Deep Learning | Nvidia

Dec. 2025

TECHNICAL SKILLS

Programming & Tools: Python, C++, SQL, Git, GitHub, Jupyter Notebook

Machine Learning & AI: Deep Learning, Computer Vision, Predictive Modeling, Convolutional Neural Networks (CNNs), Random Forest, KNN, Naive Bayes

Data Science & Analysis: Exploratory Data Analysis (EDA), Data Cleaning, Feature Engineering, Data Visualization, Statistical Analysis, Performance Evaluation

Libraries & Frameworks: PyTorch, Scikit-Learn, Pandas, NumPy, MobileNet, Matplotlib, TensorFlow

Software Engineering: Competitive Programming, Data Structures, Algorithms, System Optimization

Soft Skills: Problem-Solving, Critical Thinking, Time Management, Adaptability, Team Collaboration, Professional Communication, Entrepreneurial Drive

LANGUAGES

Arabic: Native or bilingual proficiency

English: Professional working proficiency