Youssef Salem Hassan

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Portfolio: Youssef Salem Hassan

EXPERIENCE:

- **Mobile App Developer Freelancer - Mostaql.com | مستقل**   **[Profile Link]**
  "April 2025 – Present"

- **Flutter Development Diploma – Route IT Training Center**   **[Certificate Link]**
  "February 2025 – June 2025"   (4 months)

- **DEPI Microsoft ML Engineer - Digital Egypt Pioneers Initiative (DEPI)**   **[Certificate Link]**
  "October 2024 – May 2025"   (8 months)

- **Flutter App Development Intern - UneeQ Interns**   **[Certificate Link]**
  "1 March 2025 - 25 March 2025"   (1 month)

- **Mobile Application Developer Intern - CodeAlpha**   **[Certificate Link & LOR Link]**
  "1 March 2025 - 30 March 2025"   (1 month)

- **Mobile Application Developer by Flutter Internship - Telecom Egypt**   **[Certificate Link]**
  "July 2024 - September 2024"   (3 months)

PROJECTS:

- **Multi-Emotion Recognition for Customer service** (Graduation Project)   *(July 2025)*

  A multimodal machine-learning framework to enhance mental health diagnostics by analyzing audio, video, and physiological signals. This system enables early detection of depression, improves diagnostic accuracy, and supports personalized treatment, adhering to ethical and data privacy standards.

- **Music Player App**   *(March 2025)*

  A Flutter music player application with a modern UI and rich features. This app allows users to browse, play, and manage their music library with ease. It supports various functionalities such as playback controls, volume adjustment, playlist management. *This project was a task assigned during my internship at **UneeQ Interns**.*

- **Chat App**   *(March 2025)*

  A sleek, cross-platform messaging application built with Flutter featuring dark and light modes. This app includes user authentication with Firebase, real-time messaging capabilities, and a clean, minimalist UI. Users can register, log in, and chat with other users in an intuitive interface. *This project was a task assigned during my internship at **UneeQ Interns**, where I applied my skills to create a functional and polished application.*

- **Online Exam App**   *(March 2025)*

  Built a Flutter app for random quotes with search, categories, favorites, and sharing. Integrated Quotable API, managed state, and designed a clean UI. *This project was a task assigned during my internship at **UneeQ Interns**, where I applied my skills to create a functional and polished application.*

- **ChargeHub App** *(September 2024)*

  Built An EV and gas station finder app using Flutter and Firebase, featuring user authentication, interactive maps, and a car listing section for EV recommendations. The app utilizes BLoC state management for efficient navigation and station updates; this was a Graduation during *WE* Internship.

- **Mobile Marketplace App** *(September 2024)*

  A Flutter-built mobile marketplace for buyers and sellers. Browse, buy, and sell products on the go with secure payments, real-time updates, and cross-platform support for Android and iOS, this project was a task assigned during my internship at **WE Internship.**

- **Random Quote Generator App** *(March 2025)*

  Built a Flutter-based Random Quote Generator app featuring dynamic quotes, category filters, search functionality, favorites system, and sharing capabilities. Developed with API integration and state management.

- **Facial-Recognition-System**

  AI-based authentication/ID via images/video for security/access control. Uses FaceNet/VGG-Face (transfer learning), optimized for low FAR, real-time. Processed datasets (LFW/VGGFace) with face detection/augmentation. MLOps ensure scalability, this was my Graduation project during **DEPI internship.**

- **Sign Language Translator**

  Python program allows deaf to communicate effectively, fostering inclusivity and equal access to information and services.

- **Comparative Analysis of ML Models for Street Pothole Detection**

  Co-authored a research paper evaluating and comparing the performance of CNN, ResNet-50, and Decision Tree models using Python, TensorFlow, and Scikit-learn. Conducted comprehensive dataset preprocessing, Histogram of Oriented Gradients (HOG) feature extraction, and hyperparameter tuning. Achieved highest accuracy (92.8%) using ResNet-50 and published findings emphasizing computational efficiency and key trade-offs for real-world deployment scenarios.

EDUCATION:

- **Nile University – Giza, Egypt**
  Bachelor of Computer Science

SKILLS:

- **Programming Languages:** Dart/Flutter, Python, Java, C++, JavaScript, SQL.
- **Frameworks/Tools:** API, TensorFlow, PyTorch, Firebase, Git.
- **ML/Data Science:** CNN, ResNet, NLP, Data Augmentation, HOG, Feature Fusion.
- **Soft Skills:** Team Leadership, Agile Project Management, Technical Documentation.

Language skills:

Arabic (Native speaker) / English (Fluent - Excellent writing and reading skills)