NADA SHAABAN

Cairo, Egypt — nadashaaban00@gmail.com — (+20) 01157629996 — linkedin.com/in/nadashaaban00 — github.com/nadashaaban

EDUCATION

Ain Shams University 2020 — 2025
Bachelor's Degree in Electrical Power and Machines Engineering

EXPERIENCE

Arab Constructors Company *Electrical Engineer Intern* Cairo, Egypt
- MCset units, kitchen schematics, transformers, rings, busbars, UPS and ATS systems. Summer 2024

Khalda Petroleum Company *Electrical Engineer Intern* Cairo, Egypt
- Protection Methods, Starting Methods, Operations of Motors, Generators, Transformers, Solar Cells and Turbines. Summer 2023

PROJECTS

Bachelor Project: Ai in Smart Homes *github repo — Grade: A+* Fall 2024 - Spring 2025
- **License Plate Recognition:** Python, YOLOv8, PyTorch, Jupyter, Matplotlib, fine-tuned on Egyptian license plate and Arabic character datasets (dual-model inference).
- **Face Recognition:** Python, OpenCV, face_recognition, NumPy, HOG-based facial recognition for smart door system.

Customer Spending Prediction *github repo* Spring 2025
- Pandas, Matplotlib, Seaborn, scikit-learn, SciPy, linear regression on demographic-based spending.

Online Retail Exploratory Data Analysis *github repo* Spring 2025
- Pandas, Matplotlib, Seaborn, data cleaning and visualization on UK retail dataset.

Pressure Controller System *github repo* Summer 2023
- C, Makefile, Startup.c, Linker.ld, Use Case/Activity/Sequence Diagrams, modular embedded firmware.

Student Database (FIFO) *github repo* Summer 2023
- C, FIFO data structure, file-based and manual student record system.

Dual-axis Solar Tracker *github repo* Spring 2023
- Arduino, DC Motor, IR Remote, LCD, PID Control, and auto/manual solar panel tracking.

COURSES

- **Machine Learning Specialization (Andrew Ng – Coursera):** Spring 2025
  Supervised Learning, Unsupervised Learning, Advanced Algorithms, Recommender Systems, Reinforcement Learning
- **Data Science Track (365DataScience):** Fall 2024 – Spring 2025
  Python, SQL, Excel, Tableau, Power BI, Probability, Statistics, Advanced Statistical Methods, EDA, Data Cleaning, Data Visualization, Time Series Analysis, Credit Risk Modeling, Customer Analytics, R Programming, Git & GitHub, Deep Learning, TensorFlow, Scikit-learn, Keras
- **ARM and AVR Embedded Systems Diploma:** Summer 2023
  C Programming, Embedded C, Data Structures, Microcontroller Architecture, Timers, ADC, Peripherals, Interfacing

SKILLS

- **Programming Languages & Concepts:** Python, C, C++, Arduino C, SQL, HTML, CSS, Data Structures and Algorithms.
- **Machine Learning:** YOLO, OpenCV, PyTorch, TensorFlow, Matplotlib, Pandas, Seaborn, Scikit-Learn, SciPy, Jupyter.
- **Version Control:** Git.
- **Soft Skills:** Communication, Hard-working, Ability to Work in a Team, Patience, Adaptability, Fast Learner, Detail Oriented, Dedicated.
- **Languages:** Arabic *(Native)*, English *(Fluent)*.