

Habiba Mowafy

Computer Engineering Student

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Profile

Versatile Computer Engineer with hands-on experience in AI, data analysis, web development, and desktop applications across various languages and frameworks. Passionate about creating more real-world solutions and continuously expanding technical skills.

Professional Experience

[Cellula] Machine Learning Intern

2025

- Performed EDA and preprocessing on large datasets to extract insights and predict trends.
- Created visualizations to support data-driven decision-making.
- Applied machine learning models using Python, Pandas, Seaborn, and Scikit-Learn.
- Developed and deployed ML models, integrating them into two web applications (Django & Flask).

Education

Faculty Of Engineering - AIN SHAMS University

09/2021 – present

Bachelor of Science in Computer Engineering

Skill Highlights

Programming Languages — Python | C++ | Java | Embedded C | MIPS Assembly | ARM Assembly

Data Analysis — Pandas | Matplotlib | Seaborn | Excel

Data Structure & Algorithms

Machine Learning — Sikit Learn | Keras

Database — MySql | PostgreSQL | MongoDB

Web Development — HTML | CSS3 | Flask | Django | Laravel | JavaScript

OOP

Version Control — Git & GitHub

HDL — Verilog

Microsoft Office

Projects

TimeSlice

Developed a **Python**-based desktop application with a modern GUI using **CustomTkinter**, and **Pillow** to simulate CPU scheduling algorithms (FCFS, SJF, Priority, Round Robin). Features real-time animations, live Gantt chart updates, performance metrics, and light/dark theme support.

Cartnest Web Application

Built a containerized marketplace app using **FastAPI**, **PostgreSQL**, **SQLModel**, and **Docker**, with user roles, item listings, transactions, deposits, and JWT-based auth. Integrated database migrations, test data seeding, and a primary-replica DB setup for high availability.

PocketPilot

Developed a machine learning model using **Django** for deployment. Tackled large, real-world datasets and applied advanced preprocessing and feature engineering techniques.

StayPredict

End-to-end machine learning pipeline from data analysis to deployment using **Flask**. Emphasized data preprocessing, model building, and insight presentation.

Library Management System

Developed a desktop application using **Python**, **Tkinter**, and **OOP** principles to manage personal libraries. The system connects to a **MySQL** database.

Online Shopping System

A full shopping system from the customer's perspective, also from the seller's perspective using **Java** and **JavaFX**.

Online Shopping System

This one is developed using **python**, **Flask** framework and **MySQL** database.

College Courses Registration Page

Developing a website for a student to register the courses for the semester showing his total registered credit hours and some other features using **python**, **Django** Framework and **MySQL** database.

GPS Embedded System

A small GPS tracking system using **TivaC** microcontroller connected with **bluetooth module** controlling them with an **embedded C code**, also a **python script** to display the tracking system.

Certificates

Access my full certification portfolio and recommendation letter through the link below.

Certification Portfolio & Recommendation

Languages

Arabic — Native/Bilingual

English — Proficient

German — Basic