

# MOHAMED ABDELHAQ

Cairo, Egypt 📞 +201000539560 Military Status: **Exempted**

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## Experience

### Cellula Technologies

Remotely

Machine learning Intern

Feb 2025 - March 2025

- Built ML models for hotel booking data, applying classification for cancellation prediction and regression for price estimation, supported by robust preprocessing, EDA, and model evaluation.
- Deployed a Flask API for real-time predictions with clean input handling and structured outputs, making it easy to connect with other backend systems or applications.

### Udacity

Cairo, Egypt

Session Lead in the DECI Program by the MCIT

Feb 2024– May 2025

- Deliver monthly 3-hour sessions for the 5-year DECI program, engaging students aged 12–17 through gamified, age-appropriate technical lessons, group activities, and guided reflections to build future digital leadership skills.

## Education

### Egyptian Academy for Engineering and Advanced Technology

Sep. 2020 – July 2025

Bachelor of Engineering in Mechatronics by Cumulative GPA: B with honors

Cairo, Egypt

**Graduation Project:** Side-Walk Autonomous Delivery Robot.

- Developed sensor fusion with GPS, IMU and encoders to enhance pose estimation and navigation accuracy.
- Applied low-level fusion of ultrasonic, odometry, and gyro data to reduce drift and improve obstacle detection.

## Courses

**Data Scientist Track in DEPI** | Ministry of Communications and Information Technologies  
**ISTQB Course** / Orange Digital Center

**Oct 2024– May 2025**  
**Feb 2025**

**AI Career Essentials** / ALX Africa

**July 2024**

**Mastering of Git and GitHub** / Udemy

**July 2024**

**Introduction to Software Testing Concepts and Techniques** / MaharaTech

**Mar 2024**

**CS50** / Edx, Harvard University

**Sep 2023**

## Projects

**Sales Forecasting & Demand Prediction** | [GitHub](#)

**Hotel Cancellation Prediction System with Flask API Deployment** | [GitHub](#)

**Predictive Analytics for Breast Cancer** | [GitHub](#)

**Analyzing Average Hotel Booking Prices** | [GitHub](#)

## Technical Skills

**Languages:** C, C++, Python, HTML/CSS, JavaScript, OOP, SQL, Assembly

**Backend Development:** Flask, REST APIs, Postman, Git, Node.js, LLM integration

**Developer Tools:** Code Blocks, MATLAB, VS Code, Notepad++, Arduino IDE, GitHub, Postman

**Developer Libraries:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, PyTorch, TensorFlow

**Data Science Skills:** Data Preprocessing, EDA, Feature Engineering, Visualization, Model Evaluation

## Volunteering

### IEEE

**Oct. 2022 – May 2025**

Secretary

IEEE EAEAT SB

The secretary is responsible for managing meetings, maintaining communication, keeping records, coordinating events, preparing reports, supporting the chair and board members and ensuring compliance with IEEE policies.

### IEEE Egyptian Student Paper Contest (ESPC)

**Oct. 2024**

5<sup>th</sup> in Egypt -- Top 33 in IEEE Region 8 (Europe, Africa & Asia) | [Mail](#)