

# Aya Ahmed Abdelsatar

Elharam, cairo, Egypt

phone number: 01129684470

Email: aa0067590@gmail.com

linkedIn Account: [https://www.linkedin.com/in/aya-ahmed-678813262?](https://www.linkedin.com/in/aya-ahmed-678813262?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app)

[utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=ios\\_app](https://www.linkedin.com/in/aya-ahmed-678813262?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app)

---

## CAREER OBJECTIVE

Motivated and goal-oriented Computer Science and Artificial Intelligence student seeking to leverage my technical expertise, problem-solving skills, and passion for innovation to contribute to cutting-edge projects. Eager to embrace continuous learning and deliver impactful solutions that drive organizational success.

---

## EDUCATION

Helwan University | cairo, Egypt

Bachelor, Computer Science and Artificial Intelligence, January 2025

---

## SKILLS

- Python
- Java
- C++
- C
- HTML
- CSS
- JavaScript
- Flutter
- TensorFlow
- Scikit-learn
- Pandas
- Numpy
- Microsoft Office programs
- Bootstrap
- Exploratory Data Analysis (EDA)
- Machine Learning Algorithms
- Data Visualization
- Teamwork
- Creativity and innovation
- Time management
- Team leadership
- Research and analysis

---

## EXPERIENCE

HR Committee Member

Youth Leading Youth

Supported recruitment and onboarding processes by documenting meeting minutes, managing candidate pipelines, and coordinating committee tasks

Enhanced team collaboration by creating structured workflows and fostering effective communication

Intern

NTI

Company Overview: NTI AI Internship

Gained hands-on experience in Artificial Intelligence concepts and their practical applications

Worked on supervised and unsupervised learning projects, contributing to real-world problem-solving initiatives

NTI AI Internship

## PROFESSIONAL PROJECTS

- Shortest Job First (SJF) Scheduling Algorithm: Designed and implemented the SJF scheduling algorithm using Python, optimizing process scheduling to minimize computational overhead and enhance efficiency.
- Parking Guidance System: Developed a Java-based parking management application to streamline operations and improve the user experience through real-time guidance.
- Traveling App: Built a Flutter-based mobile application that delivers personalized travel recommendations and ensures seamless navigation for users.
- Weather App: Engineered a weather forecasting application in Flutter, leveraging real-time APIs to provide accurate and timely weather updates.
- E-Shopping Website: Designed and developed a fully responsive e-commerce platform using HTML, CSS, and JavaScript, offering a user-friendly online shopping experience.
- Hospital Management System: Created a web-based system with HTML and CSS to manage hospital workflows, including patient records and appointment scheduling.
- Breast Cancer Prediction Model: Developed a machine learning model for early breast cancer detection, utilizing classification algorithms and Exploratory Data Analysis (EDA) to ensure accuracy.
- N-Queens Puzzle Solver: Implemented the N-Queens problem in Python, featuring an interactive GUI developed with Tkinter for an engaging user interface.
- ATM Management System: Designed and developed an ATM system in Python, incorporating a Tkinter-based GUI and integrating SQL for secure database management.
- Life Expectancy Prediction Model: Developed machine learning models to analyze life expectancy data. Utilized Linear Regression for continuous prediction, achieving a high  $R^2$  value of 0.952, and employed Logistic Regression for binary classification of life expectancy as above or below the median, achieving an accuracy of 92.49%.
- Food Image Classification Model: Designed a classification system for food images by implementing advanced preprocessing techniques, including resizing, augmentation, and feature extraction. Successfully classified five food categories (Pizza, French Fries, Ice Cream, Donuts, Hamburger) with high accuracy using Logistic Regression.

---

## CERTIFICATIONS

- Huawei Certificate in Advanced Technical Skills
- IBM Certificate in Exploratory Data Analysis for Machine Learning
- NTI Certificate in Artificial Intelligence
- CS Empire Certificate in C++ and C Programming
- 180 Degrees Certificate in Flutter Development
- 180 Degrees Certificate in C++ Advanced Programming
- Udemy Certificate in Data Science Career Path

**INTERNSHIPS AND VOLUNTEEREXPERIENCE**

- Youth Leading Youth (YLY) - HR Committee Member, Supported recruitment and onboarding processes by documenting meeting minutes, managing candidate pipelines, and coordinating committee tasks. Enhanced team collaboration by creating structured workflows and fostering effective communication.
- NTI AI Internship, Gained hands-on experience in Artificial Intelligence concepts and their practical applications. Worked on supervised and unsupervised learning projects, contributing to real-world problem-solving initiatives.

---

**HOBBIES AND INTERSTS**

Artificial Intelligence and Data Science  
Software Development  
Mobile Applications  
problem solving  
Volunteer Work and Leadership (Youth Leading Youth HR Committee Member)

---

**LANGUAGE**

English: Proficient  
Arabic: Native  
German: Intermediate