

# ADAM TAYEL

DATA SCIENTIST — ARTIFICIAL INTELLIGENCE STUDENT

---

---

Alexandria, EGYPT ♦ +201015312513 ♦ adamtayel55@gmail.com

---

## WEBSITES, PROFILES

- <https://eg.linkedin.com/in/adam-tayel-54a2bb330>
- <https://github.com/Adamtayel>

---

## SKILLS

- **Deep Learning & Computer Vision:** TensorFlow, Keras, Image Processing, CNN Architectures, Object Detection, OpenCV, Robotics Applications.
- **Machine Learning & Data Analysis:** scikit-learn, pandas, Matplotlib, Data Analysis & Visualization.
- **Data science :** Data Collection & Web Scraping (Beautiful Soup, Selenium, Scrapy), Data Cleaning, Data Analysis, Feature Engineering
- **Web Development:** React, Node.js , MongoDB, Responsive Design, DOM Manipulation, RESTful APIs (MERN Stack).
- **Programming:** Advanced Python , C , C++ , C# , JavaScript , Bash scripts
- **Tools & Platforms:** Git, GitHub, Jupyter Notebook , Dockers , Orange , Cursor
- **Cybersecurity:** Basic Network Scanning & Reconnaissance using Nmap and Encryption .
- **Prompt Engineering:** Advanced prompt design and optimization for AI models.
- **Other Knowledge:** Quantum Mechanics, Advanced Mathematics , Physics
- **Operating Systems:** Proficient in macOS, Windows, and Linux environments
- Problem-solving & Critical Thinking
- Teamwork & Collaboration
- Self-learning & Research Skills

---

## EXPERIENCE

---

### **Data Scientist — X Club Gym (09/2025 – Present)**

- Analyzing member datasets to extract actionable business insights.
- Building and deploying predictive models to forecast customer attendance and demand trends.
- Developing AI-driven marketing strategies based on model outputs to optimize engagement and retention.
- Collaborating with gym management to support data-driven decision-making.
- Tools: Python, scikit-learn, pandas, Matplotlib, TensorFlow.

### **Sales Assistant — Compu Fast (06/2025 – 09/2025)**

- Supported customers in selecting and purchasing computer hardware and accessories.
- Used AI tools to improve sales efficiency and product recommendations.
- Performed **web scraping** to collect and analyze competitor pricing and market trends.
- Improved product pricing strategy and promotional decisions based on collected data.
- Tools: Python, BeautifulSoup, Selenium, Excel.

## **Research Experience :**

### **AI & Robotics Researcher — Pepper Teleoperation Project (10/2025 – Present)**

- Conducting applied research on **teleoperation** of the humanoid robot Pepper to enhance human–robot interaction.
- Implementing **Computer Vision** and **Deep Learning** models to enable remote gesture and movement control.
- Using CNN architectures for real-time object and human pose detection.
- Integrating vision-based models with robotics control systems to improve accuracy and responsiveness.
- Tools: TensorFlow, OpenCV, Keras, Python, ROS (Robot Operating System).

## **Volunteer Experience :**

### **Egyptian Youth Entity (EYE) , Alexandria**

**June 2024 – December 2024**

- Communicated with staff members to stay informed about volunteer opportunities and events.
- Successfully acquired HR skills and teamwork experience.

### **Rally Start Up AAST , Alexandria**

**September 2024**

- Assisted with special events and programs on the main stage.
- Supported IT operations during the event.
- Strengthened interpersonal communication and organizational skills.

### **ECPC (Egyptian Collegiate Programming Contest) , Alexandria**

**July 2025**

- Assisted in event organization and logistics.
- Collaborated with technical teams to support contestants and staff.
- Gained exposure to competitive programming environments and event coordination.

---

## PROJECTS

---

### **Gym Membership Prediction & AI Marketing — Data Science Project**

- Developed a machine learning model to predict gym attendance and future membership demand using real gym datasets.
- Performed advanced data analysis to identify customer behavior patterns and churn indicators.
- Integrated AI-driven marketing strategies based on predictive insights to support business decision-making.
- Tools: Python, pandas, scikit-learn, Matplotlib.

### **Face Recognition & Age Prediction System — Computer Vision Project**

- Built a deep learning model to detect faces and predict ages, handling missing/null data using predictive modeling.

- Applied face detection and preprocessing with OpenCV, and implemented age estimation using CNN architectures.
- Tools: Python, OpenCV, TensorFlow, Keras, CNN.

### **Coffee Landing Page - Personal Project**

- Designed and developed a responsive landing page to enhance user experience and improve website performance.
- Reduced page load times by optimizing images, scripts, and assets.
- Tools: HTML, CSS, JavaScript, nodejs, Responsive Design.

### **COVID-19 Case Prediction Model - Self-learning / Kaggle Dataset Project**

- Built a machine learning model to forecast COVID-19 cases using time-series data.
- Preprocessed data, handled missing values, and tested multiple ML algorithms (Linear Regression, Random Forest).
- Tuned hyperparameters to improve prediction accuracy.
- Tools: Python, pandas, scikit-learn, Matplotlib.

### **AI Cashier System - project at compu fast store**

- Built an AI-powered tool to automatically process raw files and generate clean, ready-to-analyze datasets.
- Automated file handling, column selection, and data formatting to reduce manual data preparation time.
- Tools: Python, pandas, os.

### **Smart Embedded Trash & IoT System - Engineering Project**

- Developed a smart trash bin that opens automatically when a user approaches and self-empties.
- Integrated IoT components for real-time monitoring and system status tracking.
- Tools: Embedded C, IoT sensors, Microcontrollers.

### **Full Database Project - Academic Project**

- Designed and implemented a complete database system including ERD and SQL queries.
- Applied normalization, relational design, and indexing to optimize data retrieval.
- Tools: MySQL, SQL Server.

---

## COMPETITIONS

---

### **Competitor — Formula Student AAST**

*El Alamein, Egypt | 12/2023 – 02/2024*

- Participated as a team competitor in the Formula Student engineering competition.
- Gained hands-on experience with **smart car systems**, including sensor integration, autonomous navigation, and vehicle communication technologies.
- Applied strong **analytical** and **problem-solving skills** to address real-world engineering challenges.

---

**Competitor – ECPC** (*Egyptian Collegiate Programming Contest*)  
*Egypt | 07/2025*

- Competed in a national-level programming and problem-solving contest.
- Strengthened algorithmic thinking, data structures knowledge, and competitive coding skills.
- Collaborated with teammates under timed conditions to solve complex problems efficiently

---

AWARDS AND CERTIFICATIONS

---

IBM – Data Science Professional Certificate, 08/2025

Google – Advanced Data Analytics (Foundations of Data Science), 09/2025

Google – Prompt Essentials Certificate, 10/2025

Manara – Generative AI and Prompt Engineering, 04/2024

UST – Python Certificate, 09/2024

British International University – AI Training Program (Egypt), 09/2025

IAO – AI Training Program, 09/2025

HP – AI for Beginners Certificate, 09/2025

HP – AI for Business Professionals Certificate, 09/2024

HP – Agile Project Management Certificate, 09/2024

HP – Effective Leadership Certificate, 08/2024

Typing Speed Advanced Unit, 04/2024

---

EDUCATION

---

**Bachelor of Artificial Intelligence** (*Expected 09/2027*)

Arab Academy for Science and Technology and Maritime Transport – El Alamein, Egypt

- Dual Degree Program with Autonomia University of Barcelona – Barcelona, Spain
- Member of AASTMT Robotics Club
- HR Leader of AAST Boxing Community
- Participant, AAST Chess Tournament 2023–2024

Highly motivated and detail-oriented AI Engineer with strong experience in Deep Learning, Machine Learning, Computer Vision, Robotics, Advanced Mathematics, and Advanced Data Analysis. Skilled in building and deploying intelligent systems, optimizing algorithms, and applying AI solutions to solve real-world problems. Passionate about continuous learning, innovation, and applying AI to drive business and technology transformation.