

# Ahmed Hazem Elabady

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## SUMMARY

Computer Science student specializing in AI & Machine Learning, with strong hands-on experience in developing and optimizing ML models. Skilled in Python, SQL, Pandas, NumPy, and Scikit-learn, with a proven ability to clean, preprocess, and analyze complex datasets. Completed multiple real-world AI/ML projects, including model training, evaluation, and deployment. Passionate about large language models and AI-powered systems, with practical exposure through internships, training programs, and freelance work. Eager to contribute to impactful projects and grow within a collaborative engineering team.

## EXPERIENCE

### AI & Data Science Trainee, Digital Egypt Pioneers Initiative (DEPI).

October 2024 - June 2025(Expected), Hybrid

During my internship at DEPI, gained extensive knowledge in Data Science, applied various ML & DL techniques, and worked on numerous projects that enhanced my practical skills.

### AI Model Trainer-Freelancer, Outlier.

September 2024 - November 2024, Remote

Trained AI models (LLMs) to solve mathematical problems. Collaborated with cross-functional teams to develop data-driven solutions and improve model performance.

### Information Technology Trainee, Egyptian Natural Gas Holding Company (EGAS).

July 2024 - July 2024, On-site

Learned how real problems can be fixed.  
Cooperated with my team to fix real problems.

## EDUCATION

### Bachelor, Computer Science and Artificial Intelligence, Benha University.

July 2023- July 2027 (Expected)

GPA: 3.74

## CERTIFICATIONS

### AI and Data Science, Digital Egypt Pioneers Initiative – DEPI.

October 2024 - June 2025(Expected), Hybrid

### Innovation and Entrepreneurship, Information Technology Industry Development Agency, ITIDA.

June 2024, Hybrid

### Python programming, MaharaTech - ITIMooCa.

June 2024

## PROJECTS

[\(View All Projects\)](#)

- **Land Type Classification using Sentinel-2 Satellite Images (DEPI Project)**

February 2025 - June 2025

This project leverages Deep Neural Networks (DNNs) to classify different land types (agriculture, water, urban areas, desert, roads, trees) using Sentinel-2 satellite images from the EuroSAT dataset. The goal is to develop a DNN-based model that accurately classifies land types, supporting applications in urban planning, environmental monitoring, and resource management. [\(View Project\)](#)

- **Indicators of Heart Disease (Logistic Regression, SVC, KNN, Random Forest),**

April 2025

Developed a machine learning pipeline to predict heart disease using a dataset of 319,795 patient records with 18 features, including lifestyle, medical history, and demographics. Performed data preprocessing, encoding categorical variables, and feature engineering to improve model interpretability. Built and evaluated multiple classification models (Logistic Regression: 74% accuracy, SVC accuracy: 74%, KNN : 90% accuracy, Random Forest : 73% accuracy. [\(View Project\)](#)

- **Student Performance (Linear Regression Model),**

April 2025

Developed a predictive model to estimate student performance based on several key factors. The model achieved impressive results,  $R^2$  score: 0.989, Mean Squared Error (MSE): 4.083. This demonstrates how data-driven insights can be used to predict and potentially improve student performance based on measurable factors, highlighting the power of machine learning in educational settings. [\(View Project\)](#)

- **Wuzzuf Job Listings in Egypt (EDA),** **January 2025**  
This Jupyter notebook presents an insightful exploratory data analysis (EDA) of over 8,000 job listings scraped from Wuzzuf.net by Beautiful-Soap library, Egypt's leading job search platform. The analysis aims to uncover trends, patterns, and insights in the Egyptian job market. [\(View Project\)](#)
  - **Wuzzuf Job Listings Dataset (Web Scraping),** **January 2025 - December 2024**  
This dataset contains 8,000+ job listings extracted from Wuzzuf.net, one of Egypt's leading job search platforms. The data includes detailed job information across various industries and positions in Egypt, that's make more than 90% of Analysts use it to make prediction models. [\(View Project\)](#)
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## **SKILLS**

**Technical Skills:** Artificial Intelligence (AI), Machine Learning (ML), Neural Networks, Python, Pandas, Scikit-Learn, Data Analysis, Data Analytics, Data Visualization, Matplotlib, Seaborn, Plotly, Jupyter Notebook, Google Colab, SQL, MySQL, Data Preprocessing, Feature Engineering, Git, GitHub.

**Interpersonal Skills:** Management, Organization Skills, Problem Solving, Communication, Teamwork.

**Languages:** English B2, Arabic Native

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## **Volunteering**

- Event Organizer,** Codeavour 5.0 Egypt **March 2024**
- Joined in organization of event for a programming competition for AI and Robotics. The event's total capacity is 5,000 people, including 1,500 participants and 3,500 parents and spectators. This competition is a countrywide competition that make 90% of its participants better in their technical life.