

# Ahmed Mohamed Abdelsalam

**Phone:** +20 109 165 6041 | **Email:** ahmedabdelsalam.300200@gmail.com

**Location:** Cairo, Egypt | **LinkedIn:** <https://www.linkedin.com/in/ahmed-abdelsalam-794286245/>

**GitHub:** <https://github.com/ahmedmohamedabdelsalam>

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## Professional Summary

Aspiring AI and Data Engineer with hands-on experience in machine learning, real-time data analytics, and computer vision. Skilled in Python, SQL, and deep learning frameworks with a strong foundation in data science and statistics. Passionate about solving real-world problems through innovative AI solutions and continuously improving through learning and project-based work.

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## Education

### Bachelor of Science in Artificial Intelligence

Delta University for Science and Technology — Expected 2025

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## Trainings & Certifications

### AI and Data Science Training Program

Digital Egypt Pioneers Initiative — April – September 2024

- Gained practical experience with Python, SQL Server, ETL processes, and data warehousing.
- Developed machine learning models and real-time analytics systems.

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## Technical Skills

- **Programming & Libraries:** Python, Keras, PyTorch, Jupyter, Pandas, NumPy, Scikit-Learn
- **Machine Learning:** Logistic Regression, SVM, Decision Trees, Random Forest, KNN
- **Data Engineering:** ETL, Data Cleaning, SQL Server, Data Warehousing
- **Visualization:** Power BI, Matplotlib, Seaborn, Advanced Excel
- **Tools & Concepts:** Git, Linear Algebra, Statistics, Data Analysis
- **Soft Skills:** Communication, Problem Solving, Time Management, Business English

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## Projects

### Real-Time Traffic Monitoring and Analysis

Built a system to analyze live traffic data streams to support urban planning and congestion

management.

[GitHub](#)

### **Water Segmentation using Enhanced U-Net**

Developed a U-Net model for accurate segmentation of water bodies in satellite imagery.

[GitHub](#)

### **Shoplifting Detection System**

Created a computer vision system to detect suspicious activity in real-time retail surveillance footage.

[GitHub](#)

### **Teeth Classification from Scratch**

Designed and trained a custom deep learning model to classify different types of teeth from dental images.

[GitHub](#)

### **Agriculture Assistant using CNN & ML**

Developed a crop recommendation system based on soil and environmental data using CNN and Random Forest.

*(Private repo, can be shared upon request)*

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## **Internship Experience**

### **Computer Vision Intern**

*Cellula Technologies — Jan 28, 2025 – Mar 28, 2025*

- Worked on real-world image segmentation and object detection tasks.
  - Helped optimize deep learning models for performance and accuracy.
  - Received a recommendation letter for strong contributions and technical skills.
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## **Languages**

- Arabic: Native
- English: Professional Working Proficiency