

# Elsayed Ashraf Ramadan Bakry

Alexandria, Egypt — +20 102 576 8120 — [sayedworkacc@gmail.com](mailto:sayedworkacc@gmail.com)  
[linkedin.com/in/elsayed-ashraf-bakry](https://linkedin.com/in/elsayed-ashraf-bakry) — [github.com/elsayedashraf05](https://github.com/elsayedashraf05)

## Profile

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Electrical Communications and Electronics Engineering undergraduate with hands-on experience in machine learning and embedded systems. Strong background in Python-based ML workflows and low-level C implementations. Experienced in Arduino-based hardware projects and interested in tinyML, embedded ML, edge AI, and IoT research applications.

## Education

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**B.Sc. in Electrical Communications and Electronics Engineering** Alexandria University, Egypt  
Sep 2023 – Jun 2028 (Expected)

## Training & Certifications

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**DEPI Track – AI & Data Science (Microsoft Data Engineer)** Ongoing

- Structured training in data analysis, machine learning, and AI fundamentals.
- Studied data preprocessing, model building, and evaluation workflows.
- Exposure to cloud and DevOps concepts through Microsoft-based coursework.

**Machine Learning Track** — Genius Technology Center (GTC) Aug – Sep 2025

- Completed a 60-hour intensive program covering machine learning and deep learning fundamentals.
- Topics included data wrangling, exploratory data analysis, ML models, and model deployment.

**Sprints x Microsoft Summer Camp: AI & Machine Learning** 2025

- Completed 40 hours of hands-on training in AI and machine learning.
- Practiced ML workflows including data preprocessing, training, and evaluation.

## Projects

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**Handwritten Digit Recognition using Pure C** Academic Project

- Implemented a handwritten digit recognition system from scratch using the C programming language.
- Built the full machine learning pipeline including data handling, feature extraction, and classification logic.
- Focused on low-level ML implementation and understanding embedded ML concepts without external libraries.

**Arduino-Based Digital Multimeter** Academic Project

- Designed and implemented a digital multimeter using Arduino.
- Measured voltage, current, resistance, and capacitance using analog-to-digital conversion (ADC).
- Calibrated and validated measurements to improve accuracy and reliability.

**Smart ICU Monitoring Interface (LabVIEW)** Academic Project

- Developed a real-time monitoring and visualization interface using LabVIEW.
- Focused on software-side system reliability and real-time data display.

**Customer Churn Prediction Web Application** 2025

- Built a machine learning web application to predict customer churn using telecom datasets.
- Applied feature engineering and trained classification models using Scikit-learn.
- Deployed the application using Streamlit with interactive visualizations.

## Technical Skills

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**Programming:** Python, C

**Machine Learning:** Scikit-learn, Pandas, NumPy, Feature Engineering, Model Evaluation

**Embedded Systems:** Arduino, Embedded Programming, Analog/Digital Measurements, ADC

**Tools:** Git, GitHub, Streamlit, Jupyter Notebook, LabVIEW, Latex

**Languages**

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Arabic (Native), English (Proficient)

**Soft Skills**

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Problem Solving, Analytical Thinking, Research Mindset, Team Collaboration, Technical Communication