

Elsayed Ashraf Ramadan Bakry

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Profile

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

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

Training & Certifications

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

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

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

Arabic (Native), English (Proficient)

Soft Skills

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