

# Youssef Mohamed Mahmoud Elmeligy

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• <https://github.com/Elmeligy1>

## EDUCATION

**Galala University, Faculty of Computer Science and Engineering** – Suez, Egypt  
*Bachelor of Science in Artificial Intelligence*

**October 2023 - July 2027**

## SKILLS

**Technical Skills:** Python, Machine learning, C++, HTML, CSS, JavaScript, SVM, NLP, Regression, KNN, Naive Bayes, OpenCV, SQL, Database Integration.

**Soft Skills:** Leadership, Project Management, Presentation Skills, Microsoft, Office Marketing

## RELEVANT COURSEWORK

**Computer Science:** Algorithms and Data Structures, Theory of Computation, Software Engineering and Design, Programming Languages & Techniques, Architecture, Discrete Mathematics, Artificial Intelligence.

**Math:** Multivariable Calculus, Vector Calculus, Differential Equations, Linear Algebra, Statistics and Probability.

## EMPLOYMENT EXPERIENCE

**Galala University** | Student Part-Time IT | Galala University

**July 2025 – Present**

- Balancing academic workload with part-time employment.
- Gained practical experience in IT support and troubleshooting.
- Assisted in maintaining the university's computer systems and networks.

**AMGroup** | AI System Developer | Nasr City, Cairo

**November 2025 – Present**

- Contributing to the development and deployment of intelligent AI systems across the company's technology ecosystem.
- Design and implement intelligent solutions aligned with company objectives.

## PUBLICATIONS

- **Deep Learning for Brain Tumor Radiogenomic Classification: A Multi-Parametric MRI Approach**  
IEEE, International Conference on Smart Digital Green Technologies and Artificial Intelligence Sciences (CSDGTAI 2024).
- **Explainable AI-Based Enhanced Classification of Gravitational Wave Anomalies Using Vision Transformers**  
International Conference on Student Research in Computing (SRC 2025), Zayed University, Dubai.
- **Solar Power Forecasting for Grid Stability Based on Machine Learning Approach**  
International Conference on Student Research in Computing (SRC 2025), Zayed University, Dubai.
- **Swin Transformer for Bone Metastasis Classification: a Comparative Study with Transfer Learning Models**

- IEEE, The 5<sup>th</sup> International Telecommunications Conference **(ITC-Egypt 2025)**.
- **Enhanced Gender Classification in Panoramic Dental X-Rays Based on Deep Learning and Hybrid Swarm Algorithm**  
IEEE, The 5<sup>th</sup> International Telecommunications Conference **(ITC-Egypt 2025)**.
  - **Advancing Real Time Military Aircraft Detection: a Comprehensive Comparative Benchmark of Object Detection Frameworks**  
IEEE, The 5<sup>th</sup> International Telecommunications Conference **(ITC-Egypt 2025)**.

PROJECTS

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- **AI-Powered Skin Cancer Classification**  
Deep learning model for early skin cancer detection convolutional neural networks (CNN).
  - **Chronic kidney Disease Prediction**  
Created a web application using StreamLit and Machine Learning techniques to predict chronic kidney disease.
  - **Home Automation System**  
Created a home automation system using ESP8266 with temperature, humidity, gas, and fire detection sensors, Enabled remote monitoring and control via the Blynk app with automated safety alerts.
  - **Bus System Management Project**  
Developed a C++ application for managing bus schedules, ticket bookings, and customer information, Included real-time tracking and route optimization for improved efficiency.
  - **Bank Management System Project**  
Built a C++ bank management system using OOP with functionalities for account creation, deposits, withdrawals, and balance checks.

LEADERSHIP & VOLUNTEER EXPERIENCE

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<b>Vice Head, Offline Marketing</b> Team Rally Society	<b>August 2024 – January 2025</b>
<b>Projects Management Member</b> Google Developers Student Club (GDSC)	<b>March 2024 – September 2024</b>
<b>Vice Head, Marketing</b> Enactus	<b>August 2025 – Present</b>

ADDITIONAL EXPERIENCE

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<b>Content Creator</b>   Artificial iNtelligence YouTube Channel Instructor, Structured Programming with Python, Online Course	<b>August 2024 – present</b>
<ul style="list-style-type: none"><li>• Designed and delivered structured programming lessons, focusing on Python programming fundamentals.</li><li>• Helped students grasp core concepts.</li><li>• Engaged with students and provided valuable insights and explanations to help them understand complex concepts.</li></ul>	

## LANGUAGES

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- Arabic (**Native proficiency**)
- English (**Fluent**)

## CERTIFICATIONS

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- **SDG International | Hany Moustapha Posters and Papers Awards 2024 (CSDGTAI 2024).**  
Awarded for the Best Second Paper: "Deep Learning for Brain Tumor Radiogenomic Classification: A Multi-Parametric MRI Approach"
- **ALX-AiCE - AI Career Essentials Program – ALX**  
Successfully completed an 8-week program focused on AI career development, solving real-world challenges such as improving Waga's VacAI app. Developed skills in problem-solving, collaboration, communication, and presentation, while exploring global opportunities and enhancing my personal brand.
- **What is Innovation – Arizona State University**  
Successfully completed a course from the #1 institution in innovation, gaining valuable insights into the transformative power of innovation in driving progress.
- **Core Project Management Team Member – Google Developer Student Club (GDSC) | 2023-2024**  
Successfully completed my role as a core team member, collaborating on diverse projects to foster innovation and growth.
- **AWS Academy Cloud Foundations – AWS Academy**  
Successfully completed the 20-hour AWS Academy Cloud Foundations course, gaining a strong understanding of cloud computing and AWS services.
- **The C++ Learning Guide – Udemy | April 2024**  
Completed an in-depth course on C++ programming, covering key concepts such as syntax, data structures, algorithms, and best practices for writing efficient and scalable C++ code.
- **Mastering Object-Oriented Programming (OOP) using C++ – MaharaTech | January 2024**  
Successfully completed a course focused on mastering Object-Oriented Programming concepts using C++.
- **Introduction to Machine Learning – IEEE Student Club, Galala University | January 2024**  
Completed a foundational course on Machine Learning, covering key concepts such as supervised and unsupervised learning, model evaluation, and real-world applications.