

Saif El-din Hassan Mohmaed Aburaia

AI & Automation Engineer | Data Scientist

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Professional Summary

Motivated AI and Automation Engineer with a strong foundation in mechatronics and business information systems. Experienced in developing intelligent systems using Python, Arduino, and automation technologies. Skilled in machine learning and deep learning, with hands-on experience building innovative AI-driven projects such as smart home control and voice recognition systems. Recognized for creativity and problem-solving, seeking to leverage technical expertise in AI and automation for impactful, international opportunities.

Education

Badr, Egypt

Technical School of Applied Technology for Mechatronics – Badr

Graduated with practical and theoretical training in mechatronics systems.

Shorouk, Egypt

Bachelor of Business Information Systems

Al-Shorouk Academy

Technical Skills

- **Robotics & Embedded Systems:** Wheeled robots, motor drivers, sensor integration, embedded system design
- **Hardware Development:** Motor control systems, sensors, Arduino-based systems, real-time hardware interfacing
- **Artificial Intelligence & Machine Learning:** Supervised/Unsupervised Learning, Computer Vision, Model Training & Deployment
- **Deep Learning:** Neural Networks, CNN-based vision models, real-time inference systems
- **Data Science & Analytics:** Data analysis, data visualization, dashboard development, insights generation
- **Programming:** Python, Arduino, C++, C#, C
- **System Development:** Attendance management systems, admin dashboards, user management, reporting systems, workflow automation
- **UI/UX & Digital Design:** Interface design, user experience, branding, visual design

Projects

Voice-Controlled Smart Model (Arduino)

- Built a voice-controlled system using Arduino and mobile integration for smart device control. Recognized by UNESCO for innovation and execution.

Motion-Activated Lighting System

- Developed an automated lighting system using motion sensors and Python for real-time control based on hand gestures.

AI-Powered Sign Language Translator (SINGNIFY App)

- Created a computer vision + machine learning system that translates sign language gestures into text and speech in real time.

AI Surveillance System for Violence & Harassment Detection

- Developed an AI model using computer vision to detect violence and harassment in camera feeds and automatically send alerts to administration.

Real-Time Data Analytics Dashboard (Company Monitoring System)

- Built a dynamic dashboard that updates automatically to track and visualize company operations and real-time events using data analysis techniques.

Cross-Platform Attendance Management System

- Developed and deployed an attendance management system for iOS, Android, and PC, implemented across 12+ branches of an optical retail business.
- Secured employee check-ins using device-bound accounts, biometric authentication, and location-based attendance validation.
- Prevented account switching and proxy attendance by linking each employee account to their personal mobile device.
- Enabled real-time management notifications and monthly attendance reports to track

Experience

Founder & Technical Lead | Elevat Tech Solution

- Established Elevate Tech Solution to deliver technology solutions across software development, automation, embedded systems, and digital design.
- Led the planning and execution of multiple projects, including management systems, web-based platforms, Flutter applications, and embedded system solutions.
- Translated client needs into technical requirements, system workflows, and practical implementation plans.
- Managed project delivery while contributing directly to development, system design, and

AI & Machine Learning Instructor

- Taught AI and Machine Learning concepts to students aged 10–18 through simplified explanations and practical activities.
- Covered basic Python, AI applications, machine learning fundamentals, and computer vision concepts.
- Guided students through hands-on exercises and small projects to strengthen problem-solving and technical thinking.

System Analyst Intern | Unitechs

- Analyzed client requirements and contributed to system design for business solutions.
- Supported documentation and workflow diagrams to improve process efficiency.
- Gained practical experience in software analysis and project planning.

Internship In EGYTRAFO Group (Transformers Industry)

- Participated in field training sessions on electronics, automation, electric motors, robotics, and system integration.
- Gained hands-on experience with electric motors, transformers, and industrial electrical systems.
- Assisted in assembly and testing of electrical components and motor systems.
- Learned safety protocols and industrial workflows to ensure operational efficiency.

Awards

Recognized by UNESCO for innovative Arduino-based voice control project.

Awarded by the German-Arab Chamber of Industry and Commerce (GACIC) for passing hands-on and theoretical mechatronics exam

Orange (Orange Digital / Orange Training Program)

- Completed professional training in AI Automation, focusing on intelligent automation systems, workflow automation, and integration of AI solutions in real-world business processes.

Artificial Intelligence Diploma (170+ Hours)

- Instant Academy Completed an intensive diploma in Artificial Intelligence covering core concepts of Machine Learning, Deep Learning, Data Science, and AI applications, with hands-on projects and practical implementations.

Languages

- Arabic: Native
- English: Intermediate