

MOSTAFA IBRAHIM SAFWAT ELRASHASH

Artificial Intelligence Student | Junior Software Developer

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PROFESSIONAL SUMMARY

Ambitious Artificial Intelligence student and junior Python developer with proven expertise in machine learning, computer vision, and full-stack development. Skilled at building and deploying scalable AI solutions that deliver measurable results. Passionate about innovation, problem-solving, and turning complex ideas into practical applications.

KEY ACHIEVEMENTS

- Achieved 98% robotic arm pick-and-place accuracy using YOLOv8 + DeepSeek API.
- Built AI secure chat system preventing 90% of potential confidential data leaks.
- Reduced system diagnostic time by 30% with Python & Bash automation scripts.
- Increased user engagement by 15% through AI-powered restaurant recommendation engine.

TECHNICAL SKILLS

Programming: Python, Java, JavaScript, HTML, CSS, Bash, SQL

AI & ML: Computer Vision, YOLO, Object Detection, NLP, Recommendation Systems, PyTorch, TensorFlow

Data Analysis: Pandas, NumPy, Matplotlib, Data Preprocessing & Cleaning

Tools & DevOps: Git, VS Code, Jupyter Notebook, API Integration, Browser Extensions, Model Deployment

Automation: Web Scraping, Workflow Optimization Scripts

EDUCATION

B.Sc. in Artificial Intelligence – Helwan International Technological University (HITU), Cairo
Expected Graduation: 2026

CERTIFICATIONS & TRAINING

- NTI – Huawei & Cisco Collaboration (2024–2025): AI, Data Analysis, Networking Fundamentals
- Information Technology Institute (ITI) (2024): Python, Data Analysis, Cybersecurity
- Cisco Python Data Analysis (NTI)
- Deep Learning for NLP
- Python Development (ITI)
- Java Development Certification (PMS)

PROFESSIONAL EXPERIENCE

Freelance Software Developer | 2023 – Present

- Delivered AI, data analysis, and automation solutions reducing client processing time by 35%.
- Created predictive modeling & web scraping applications in Python.
- Built interactive web tools with HTML, CSS, and JavaScript.

AI Data Labeling Specialist – Outlier | 2024 – 2025

- Managed annotation pipelines for CV/NLP models with 99% accuracy.
- Automated data preprocessing & validation workflows for efficiency gains.

IT & Programming Intern – GUPCO | 2024

- Developed Python & Bash scripts that cut diagnostic time by 30%.

IT & Programming Intern – PMS | 2024

- Created automation tools to process 200+ daily logs, improving reporting speed.

SELECTED PROJECTS

AI-Powered Prosthetic Hand: Integrated sensor-based Python control & adaptive AI for personalized movement, improving responsiveness by 25%.

Robotic Arm with AI Vision: Achieved 98% precision with YOLOv8 & DeepSeek API for autonomous pick-and-place tasks.

AI-Powered Secure Chat Monitor: Developed Chrome extension blocking 90% of sensitive data leaks in real time.

Restaurant Recommendation Engine: Implemented Neural Collaborative Filtering in PyTorch to increase engagement by 15%.

NASA International Space Apps Challenge: Built AI-enhanced space data visualization platform for 500+ users.