

MAGD SHEREF AYYAD

AI & Machine Learning Developer

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PROFESSIONAL SUMMARY

Motivated and technically skilled Computer Science student at MTI University with a strong GPA (3.4) and a passion for full-stack web development and artificial intelligence. Experienced in solving complex coding problems with over 300+ combined problems on Codeforces and LeetCode. Currently an intern in AI & Data Science under the Digital Egypt Pioneers Initiative. Eager to apply and expand my knowledge in real-world software development and AI-driven projects.

EDUCATION

MTI University, Bachelor of Science in Computer Science

2023 – 2027 | Cairo, Egypt

GPA: 3.4

Relevant Coursework: Data Structures & Algorithms, Object-Oriented Programming (C++ & Java), AI Fundamentals, Web Development, Computer networks, Operating system

INTERNSHIPS

Digital Egypt Pioneers Initiative (DEPI),

06/2025 – 12/2025 | Cairo, Egypt

AI & Data Science Intern

- Participated in hands-on AI and data science training with real-world datasets.
- Gained foundational knowledge in data preprocessing, classification models, and machine learning pipelines.
- Worked on mini-projects in computer vision and natural language processing.

PROJECTS

AI Machine Industry Maintenance (Predictive Maintenance | Machine Learning),

Designed a predictive maintenance system to identify potential machine failures before they occur. ↗

- Collected and cleaned real-world industrial sensor data.
- Trained supervised learning models (Random Forest, XGBoost) to predict maintenance needs.
- Improved operational efficiency by reducing downtime and maintenance costs.

Loan Approval Predictor (Machine Learning | Scikit-learn),

Developed a classification model to predict loan approval based on applicant financial data. ↗

- Processed and normalized structured datasets.
- Trained and evaluated multiple models (Logistic Regression, Decision Tree, Random Forest).
- Delivered an interpretable prediction system with accuracy-based model comparison.

Raccoon Object Detection (Computer Vision | TensorFlow), Developed an object detection model using

RCNN, Fast RCNN, and Faster RCNN architectures to detect raccoons in images.

- Preprocessed and labeled images for model training.

- Implemented using TensorFlow and OpenCV, optimized for CPU performance.
- Achieved strong detection accuracy through transfer learning and fine-tuning.

TECHNICAL SKILLS

Programming Languages – C++, Java, JavaScript, Python, **AI & Data Science Tools** – Pandas, NumPy, Scikit-learn, TensorFlow, OpenCV, NLTK, spaCy, Matplotlib, Seaborn, Data Visualization, Machine Learning, Deep Learning, Natural Language Processing (TF-IDF, POS Tagging, Lemmatization, Stemming), Computer Vision (RCNN, Fast RCNN, Image Classification), **Other** – Problem-solving, Agile basics, REST APIs, Git & GitHub, VS Code, Linux

CERTIFICATIONS

- Virtual Assistant Course - ALX ↗
- HCCDA-Tech Essentials ↗
- Sprints x Microsoft Summer Camp - Web Development ↗
- Huawei HCIA-AI course ↗

LANGUAGES

Arabic

Native

English

B2 (Upper Intermediate)

CODING ACHIEVEMENTS

- Solved 200+ problems on Codeforces (Student rank)
- Strong grasp of algorithms, recursion, greedy, and dynamic programming techniques
- Solved 100+ problems on LeetCode