Taha Fawzy Anwar Elshrif

AI Developer | Specializing in DL and Android Development

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- **Military Status**: Awaiting conscription
- tahafawzyelshrif.github.io/portfolio

◆ Professional Summary

AI Engineer with practical experience in designing and deploying models for real-world and academic projects. Background in operating systems, cloud computing, and software engineering. Skilled in mobile development, IoT, and reinforcement learning. Passionate about creating intelligent systems that solve real problems.

◆ Education

B.Sc. in Data Science

Faculty of Computers and Data Science, Alexandria University – Graduated 2025 | GPA: 3.76 / 4

◆ Key Skills

Python – Java – R – C – MATLAB – XML – SQL – MongoDB – Scikit-learn – TensorFlow – PyTorch – Keras – Matplotlib – Plotly – Huggingface– Android – Firebase — OOP – API Integration – CNN – YOLO – Object Detection – Image Preprocessing – Reinforcement Learning – Markov Chains – Expert Systems – Bayessian Statistics – Clustering – Regression – Classification – ANOVA – Minitab – Text Mining – LLMs – Apache Kafka – MQTT – MicroPython – Arduino – ESP32 – Sensors – Actuators – Graph Analysis – Multivariate Analysis – Sentiment Analysis – Social Media Analysis – Git – GitHub – Linux

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◆ Secondary Skills

Cloud Computing – Clean Code – Software Engineering Principles – JavaFX – Java Swing – Processing – HTML – CSS – HTTP – DNS – FTP – Wireshark – Packet Tracer – Access Control Lists (ACLs) – Windows CLI – Networking Concepts -FastAPI – Flask

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◆ Soft Skills

Teamwork • Problem Solving • Task Prioritization • Logical Reasoning

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◆ Languages

- Arabic: Native
- English: Intermediate (Working proficiency)

◆ Projects

Traffic Manager (Graduation Project): RL-based smart traffic signal system with SUMO & physical prototype.
Gemy: ESP32-based AI robot with Android chatbot integration.
Mango Explorer: Android file manager with compression & core file operations.
XO Game: AI-powered Tic-Tac-Toe (Java/Python, alpha-beta pruning).
Pandas Background: YOLO + ToF segmentation via FastAPI.
SVM-Hinge: Python pip package implementing SVM with hinge loss.
Recipeleng: Graph analysis of 1,000+ ingredients to detect influence patterns.
Reuters Classification: ML model to enhance news categorization accuracy by 90%.

◆ Graduation Project: Traffic Manager

Designed a smart traffic signal system using Reinforcement Learning, trained on simulated Egyptian road networks. Applied experimental design and ANOVA to evaluate models. Deployed the top-performing model in a prototype with real-time Computer Vision for speed estimation. Integrated IoT for signal control and developed a mobile app for emergency alerts. Project released under MIT license.

◆ Certifications

- DeepLearning.ai ML Specialization (Coursera)
- IBM Badges: Computer Vision, LLM & Gen AI
- Mahara Tech Android Certificate
- Linux Foundation, SoloLearn: C, Python
- Huggingface RL Certification