

# Taha Fawzy Anwar Elshrif

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## Professional Summary

AI Developer with strong mathematical foundations and proven ability to build end-to-end intelligent systems, from algorithm design to deployment on cloud and mobile platforms. Experienced in reinforcement learning, computer vision, and large language models, with hands-on projects integrating AI into real applications. Recognized and recommended by my university professor for exceptional skills, dedication, and impact in AI and software development.

## Education

**B.Sc. in Data Science** Faculty of Computers and Data Science, Alexandria University – Graduated 2025 | GPA: 3.79 / 4 ( Excellent with honor degree).

## Languages

- Arabic: Native
- English: B2 (Tested via EnglishRadar)

## Key Skills

**AI/ML:** Expert Systems, Text Mining, Machine Learning, Neural Network, Convolutional Neural Network (CNN), You Only Look Once (YOLO), Large Language Models, Agents, Reinforcement Learning (RL), Data Science, Automation, Power BI, Excel.

**Mathematical & Theoretical Foundations:** Probability, Optimization, Linear Algebra, Markov Chains, Bayesian Statistics, Experiments Design, Multivariate statistics.

**End-to-End System Development:** FastAPI, Flask, Cloud Deployment.

**Cross-Domain Integration:** Android, IoT (ESP32, MQTT).

**Other Tools:** Git, GitHub, Linux, Apache Kafka.

## Secondary Skills

Testing – Windows GUI (Swing) – Processing – Networking – Blockchain – ROS – Free CAD – Video Editing.

## Soft Skills

Self-directed learning – Communication – Presentation skills – Teamwork and Management – Navigating ambiguity – Problem Solving – Task Prioritization.

## Projects

**Graduation Project: Traffic Manager** Led the development of a smart traffic signal system trained via simulation and integrated with an IoT prototype. Achieved an average waiting time of 21 seconds per 30 minutes with fairness using Reinforcement Learning, Simulation of Urban MObility (SUMO), Analysis of variance (ANOVA), Computer Vision, and Flutter.

**AidMate** Led the development of AidMate, a cross-platform first aid application using Flutter, RAG, and TF-IDF, achieving high response accuracy with reliable offline functionality.

**Pandas Background** Developed an end-to-end background removal system, processed images in under 2s on mobile devices using Fast API, Android, and You Only Look Once (YOLO).

**SVM-Hinge** Developed and implemented a Support Vector Machine with hinge loss.

**Reuters Classification** Led the creation of a machine learning model achieving 90% accuracy using scikit-learn and TensorFlow.

**Recipeleng** Performed analysis of 1,000+ ingredients using graph theory.

## Experience

- **Cloud Computing Training – SRTA-CITY** Gained hands-on experience in virtualization, fault tolerance, and cloud models (IaaS, PaaS, SaaS).
- **XClan:** AI Team Lead, developed AI systems focused on cost optimization with high performance.

## Certifications

- DeepLearning.ai ML Specialization, IBM Badges (CV, LLMs, Deep Learning & Generative AI), HuggingFace RL, Mahara Tech Android Certificate, Advanced Databases from Meta, Power BI (Microsoft), Excel (Microsoft).