Mustafa Taha

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Profile

AI Engineer & Data Analyst with hands-on experience building scalable AI/ML solutions, predictive models, and intelligent data systems. Proficient in reinforcement learning, NLP, computer vision, and time-series forecasting using PyTorch, TensorFlow, Hugging Face, and Scikit-learn. Skilled in data preprocessing, analysis, visualization, and model optimization. Secondary expertise in full-stack development (MERN, Spring Boot, Django, Flutter) with deployment on AWS/Docker. Delivered impactful solutions including autonomous drone navigation, traffic OCR systems, AI recommenders, and scalable web platforms, improving operational efficiency by up to 35%.

Technical Skills

- **AI/ML Frameworks:** PyTorch, TensorFlow, Hugging Face, RLlib, OpenCV
- **Data Tools:** Pandas, NumPy, Scikit-learn, Matplotlib, Seaborn, SQL, Excel
- **Programming:** Python, Java, JavaScript, Dart, Bash, C, Assembly, Verilog
- **Full-Stack:** React, Node.js, Express, Django, Spring Boot, REST APIs, JWT
- **Databases:** MongoDB, MySQL, SQLite, Firebase
- **Mobile:** Flutter (Dart)
- **DevOps/Cloud:** Docker, AWS, Git, CI/CD, Postman, Socket.IO
- **Systems:** Linux, Networking (TCP/IP, VPNs, VLANs)

Professional Experience

Data Analyst & AI Engineer (Freelance) – Self-Employed — Remote   *2020 – Present*

- Designed and deployed 10+ ML models (forecasting, classification, CV, RL), improving client decision-making efficiency by up to 35%.
- Conducted full-cycle data workflows—collection, preprocessing, feature engineering, visualization—reducing preparation time by 40%.
- Delivered AI-powered APIs and dashboards, enabling actionable insights and improving operational efficiency by 25%.
- Developed and deployed full-stack and mobile applications (MERN, Spring Boot, Flutter) on AWS/Docker, supporting 1,000+ active users.
- Managed commercial operations (2020–2024) with annual trade volume exceeding 80M ILS, ensuring 100% on-time delivery.

System Administrator – Exalt Technologies — Ramallah   *2018 – 2019*

- Automated system administration tasks and CI/CD workflows, reducing manual intervention by 50%.
- Configured VPNs, VLANs, and Dockerized environments for 200+ endpoints, enhancing network security and deployment efficiency.

Selected Projects

AI / ML Projects

Reinforcement Learning Projects (Python, PyTorch, RLlib, Hugging Face Hub) [GitHub]
– Trained RL agents (DQN, PPO, A2C, SAC, HER) for robotics, drones, and multi-agent systems.
– Benchmarks: PandaPickAndPlace, Drone Navigation, SoccerTwos, Atari.
– Published reproducible models on Hugging Face with high reward rates.

FoodApp – Food Image Classification (Python, PyTorch, Flask, OpenCV, CNN/ViT) [GitHub]
– Collected dataset via web scraping, preprocessed with OpenCV.
– Achieved 93% accuracy on 10k+ images; deployed as Flask REST API.

Traffic Monitoring System – Car Detection & OCR (Python, OpenCV, TensorFlow, YOLO) [Private]
– Real-time vehicle and license plate detection using YOLO.
– Automated data logging and integration with live dashboards.

Smart E-commerce AI Recommender (Python, Flask, Scikit-learn, MySQL) [GitHub]

– Built AI recommendation engine using association rule mining and forecasting.
  – Integrated Flask API with WooCommerce and MySQL backend.

  Deep Learning Projects (PyTorch, TensorFlow, Hugging Face) [GitHub]
  – 15+ applied DL projects: BERT for NLP, LSTM for sentiment, CNN for CIFAR-10/MNIST.

Full-Stack Projects

LinkUp – Social Media Platform (MERN, Socket.IO, AWS) [GitHub]
– Real-time platform with posts, messaging, notifications, and online presence.
– Secure REST APIs, JWT auth, role-based access.
– Deployed on AWS EC2 with scalability and fault tolerance.

PalRent – Apartment Booking System (Spring Boot, MySQL) [GitHub]
– Multi-role booking system with Spring Security.
– Robust data persistence with MySQL.

Istanbol Mall – E-Commerce Platform (MERN, Flutter, AWS) [GitHub]
– Cross-platform e-commerce: React (web) + Flutter (mobile).
– Integrated payments, notifications, deployed on AWS.

Education

B.Sc. Computer Engineering – Birzeit University — Ramallah	2013–2018
Full-Stack Developer Certificate – AXSOS Academy / Coding Dojo — Ramallah	Apr–Sep 2024

• 1,200+ hours of intensive training; delivered 3 team projects (Agile methodology).

Certifications

• Deep Reinforcement Learning Course – Hugging Face	Aug 2025
• AI/ML Course with Real Graduation Project – Hsoub Academy	Aug 2025
• Django Masterclass: Build 9 Projects – Udemy	Jun 2025
• Networking Fundamentals for CCNA – Udemy	May 2025
• Cisco DCAIE: AI on Cisco Infrastructure – Cisco	Apr 2025
• Flutter & Dart: The Complete Guide – Udemy	Jan 2025
• DevOps Certification – Manara	Dec 2024
• Flutter Bootcamp with Dart – Udemy	Oct 2024

Languages

Arabic (Native), English (Advanced)