Eng.Mohammad Awawdeh

AI & Systems Engineer

Phone: +970-569-226874
Email: m7mad@fintks.com
LinkedIn: linkedin.com/in/m7madash
GitHub: github.com/M7madAwawdeh
Address: Karma, Hebron, Palestine
Portfolio: fintks.com/portfolio/mohammad

AI Engineer specializing in real-time gesture recognition and behavioral biometrics, with hands-on experience in building end-to-end intelligent systems. Published researcher in AI-driven security and applied ML. Proven ability to deliver high-accuracy models (96%) and deploy AI solutions on embedded and mobile platforms.

TECHNICAL SKILLS

- AI/ML: Supervised, Unsupervised, Deep Learning (CNN, LSTM), Object Detection, NLP, Chatbots, ARIMA
- Frameworks: TensorFlow, PyTorch, Scikit-learn, Keras, Flask, FastAPI
- Programming: Python (Advanced), C++, PHP, JavaScript
- Full-Stack: React Native, Node.js, Laravel, REST APIs
- Tools: OpenCV, Pandas, NumPy, Git, Docker, Google Colab, Arduino, BLE, Sensors (Flex, IMU)

KEY PROJECTS

AI Code Review Agent | Python + LangChain + GitHub API | 2025

- Built an AI agent that analyzes GitHub pull requests, detects bugs, and suggests improvements using LLMs.
- Used LangChain to orchestrate multi-step workflows: code retrieval, analysis, and feedback generation.
- Integrated with GitHub API to automate the review process for real repositories.
- Tech: Python, LangChain, OpenRouter, GitHub API, Prompt Engineering.

Smart Glove: Real-Time Sign Language to Speech Translation | 2025

- Developed a smart glove using flex sensors and IMU (accelerometer) to capture hand gestures.
- Achieved 96% accuracy in real-time gesture classification using sensor fusion and time-series analysis.
- Integrated with a React Native mobile app via Bluetooth to convert gestures into synthesized Arabic speech.
- Technologies: Arduino, C++, React Native, BLE.
- Impact: Enables communication for the deaf community; scalable for multilingual support.

AI-Based Identity Verification via Behavioral Biometrics | 2024

- Researched and prototyped an AI system that verifies user identity based on typing patterns, mouse dynamics, and interaction behavior.
- Implemented feature extraction and classification using Random Forest and LSTM models.
- Published in peer-reviewed journal with real-world implications for remote work security.
- Technologies: Python, Scikit-learn, Pandas, Data Analysis.

PROFESSIONAL EXPERIENCE

Founder & AI Developer | Fintks | 2024 – 2025

Designed and deployed AI-integrated web and mobile applications, bridging machine learning models with user-facing interfaces. Specialized in building full-stack systems where AI drives decision-making, automation, and intelligent UX. Provided technical consultation on AI feasibility, data collection, and model deployment workflows.

EDUCATION

Bachelor of Science in Smart Systems Engineering | Palestine Ahliya University | 2019 – 2025 | GPA: 3.0 | Bethlehem, Palestine

- First cohort in the West Bank specializing in AI and intelligent systems.
- Published Research: "AI-Based Identity Verification Through Behavioral Biometrics: Enhancing Remote Work Security"

DOI: 10.59994/ajbtme.2024.2.33

- Thesis Focus: Real-time gesture recognition using sensor fusion and deep learning.

SOFT SKILLS

Proven ability to work remotely, manage time efficiently, and deliver complex AI projects under tight deadlines.

PUBLICATION

Awawdeh, M. (2024). AI-Based Identity Verification Through Behavioral Biometrics: Enhancing Remote Work Security.
DOI: https://doi.org/10.59994/ajbtme.2024.2.33

LANGUAGES

Arabic (Native), English (B2)