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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.

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: <https://doi.org/10.59994/ajbtme.2024.2.33>
- Thesis Focus: Real-time gesture recognition using sensor fusion and deep learning.

KEY PROJECTS

AdShot: AI-Powered Product Ad Generator | Laravel + OpenRouter | 2025

- Built a web platform that transforms ordinary product photos into professional marketing ads using AI.
- Features: image upload, AI-powered enhancement (via img2img), and automatic ad generation with branded text.
- Integrated with ImageRouter to leverage advanced image generation models (e.g., Stable Diffusion XL) for high-quality outputs.
- Tech: Laravel, PHP, ImageRouter API, Image Generation.

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.

TECHNICAL SKILLS

- AI/ML: Supervised, Unsupervised, Deep Learning (CNN, LSTM), Object Detection, NLP, Chatbots, ARIMA, Prompt Engineer
- 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)

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 (B1)

SOFT SKILLS

Highly self-motivated with a proven ability to work under pressure and deliver high-quality results in challenging environments. Committed to continuous learning and technical growth. Thrives in remote, deadline-driven settings with strong time management and perseverance to see complex AI projects through from concept to deployment.