Mahmoud Ibrahim AbuAwd

AI & ML Engineer | Amman, Jordan
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Summary

AWS Certified AI Practitioner & AI/ML Engineer with hands-on experience in NLP, computer vision, deep learning, and generative AI. Proficient in Python, TensorFlow, and PyTorch, scikit-learn with expertise in cloud deployment (AWS, Azure) and MLOps. Delivered 20+ production-ready AI solutions, from data preprocessing to deployment, actively seeking an AI/ML Engineer role to build innovative AI solutions that drive real-world impact.

Education

Al-Balqa' Applied University — *Bachelor of AI and Robotics (2021-2025)* — GPA: 3.34 – *Very Good* — Jordan, Salt

Experience

Internship, Future Advance Internet Solutions — Oct 2024 – Mar 2025
- Completed hands-on training at FAIS in AI, Deep Learning, and Data Preprocessing techniques
- Gained practical experience in data cleaning, transformation, and ML model preparation
- Applied skills to build intelligent systems that improve decision-making and drive business outcomes

Internship, Innovation, Creativity, and Entrepreneurship Center — Jun 2024 – Aug 2024
- Collaborated in a team-driven environment with professionals
- Gained practical experience in 3D design using Fusion 360, Arduino programming, and robot assembly
- Contributed to solving technical challenges effectively

Skills

Programming & Tools: Python (TensorFlow, PyTorch, scikit-learn, OpenCV, NLTK, pandas, Numpy), C++ (Arduino),Git

Machine Learning & AI: CNN, RNN, NLP, Computer Vision, Model Evaluation (ROC-AUC, F1), Generative AI (GANs, Transformers, LangChain, RAG), Prompt Engineering

Data & Visualization: Data Preprocessing, Feature Engineering, Power BI, Excel, Matplotlib, Seaborn

Embedded Systems: Arduino (UNO, Nano, Mega), Circuit Design, Robotics, IoT, 3D Modeling (Fusion 360, Tinkercad)

Deployment & Cloud: Flask, FastAPI, Streamlit, AWS (Certified), Microsoft Azure, Docker

Languages & Soft Skills: Arabic (Native), English (B2), Teamwork, Communication, Pressure Handling, Problem Solving

key Projects

MedGAN-SynTumorClassifier: (Graduation Project) – ([GitHub](#))

Developed and deployed a Flask web app that augments scarce brain tumor MRI data with 12 GANs (Meningioma, Glioma, Pituitary) and classifies tumor vs non-tumor using a Vision Transformer—producing high-resolution, realistic images indistinguishable from real scans, and achieving 92% classification accuracy for reliable diagnostic support.

FluentWave: Web-Based Speech Transcriber - ([Github](#))

Built and deployed a real-time Speech-to-Text system using Word2Vec for enhanced semantic accuracy, integrated into a Flask-based web interface for seamless audio-to-text conversion.

Price-Pilot Agentic System: End-to-End AI for SMB Retailers - ([Github](#))

Price-Pilot Agent is an end-to-end, multi-agent AI platform designed to help small and mid-sized retailers sell smarter, restock automatically, and deliver reliably—all through a single conversational interface.

Anomaly Detection in Network Traffic Using Isolation Forest and Deep Learning - (Github)
Developed an anomaly detection system for network traffic using Isolation Forest and Deep Learning, enabling real-time identification of intrusions and malicious activities with high detection accuracy.

DevInsight Agent: Autonomous AI for GitHub Repository Analysis - (Github)
Built a local AI agent that clones GitHub repositories, analyzes code quality, tech stack, and architecture, and generates detailed improvement reports using LLMs for actionable development insights.

Certifications and Courses

AWS Certified AI Practitioner — *AWS* (May 2025)

Preparing Data for Analysis with Microsoft Excel — *Microsoft* (March 2025)

Harnessing the Power of Data with Power BI — *Microsoft* (March 2025)

DeepLearning.AI TensorFlow Developer Specialization — *DeepLearning.AI* (Jan 2025)

Deep Learning Specialization — *DeepLearning.AI* (Sept 2024)

Embedded Systems — *INJO* (May 2024)

Data Science & Machine Learning using Python — *The Hope International* (March 2024)

Additional information

Volunteering/Activities: Google Developer Group (Oct 2024 - Present), IEEE (May 2024 - Dec 2024).

Research Papers: MEDGAN: Advanced Medical Image Generation (2025), The Role of AI in Improving the Criminal Justice System to Reduce Arbitrary Detention (2024).