Abdullah Ahmed Alzahrani

AI/ML Engineer

📞 +966509859568 🔀 Abdullah.Alzahrani.p@gmail.com 🕜 abodeza.github.io in a-a-alzahrani ♀ Riyadh, SA

Summary

Machine Learning focused EE graduate with experience building and deploying solutions in predictive modeling, computer vision, NLP, and cloud-based ML platforms. Skilled in turning complex data into ML solutions.

Education

Bootcamp: Building and Developing AI Models

03/2025 - 05/2025 | Riyadh, SA

Tuwaiq Academy

Completed an intensive AI bootcamp on Machine Learning with projects in Computer Vision, NLP, and cloud ML tools

BSc. in EE (Focus Area: Artificial Intelligence & Machine Learning)

08/2020 - 12/2024 | Troy, NY, USA

Rensselaer Polytechnic Institute (RPI) 🔗

Relevant Coursework: ML · DL · RL · Probabilistic Graphical Models · Distributed Optimization · Data Structures · FOCS

Experience

Machine Learning Lead - Sponsored Capstone Project

08/2024 – 12/2024 | Troy, NY, USA

Rensselaer Polytechnic Institute | Sponsored by VEIC & NYSERDA 🤌

Developed a data-driven approach to meet a new NYS mandate for detecting >20% VRF system leaks without resorting to invasive sensors due to engineering constraints.

- Applied EDA, PCA and delivered an ML-based demo app achieving 91.15% accuracy for leak monitoring
- Simulated leak scenarios via correlation analysis on secondary datasets for training and validation
- Collaborated with engineers, presented findings to stakeholders, awarded "Outstanding Technical Progress"

Projects

Gharsa | OpenCV · SAM · fine-tuned CLIP · Zero-Shot · AWS ∅

05/2025 - Present

Showcased @ The Garage, Riyadh during Tuwaiq's Career Fair

- Developed a site that enables novice plant owners to identify plants, soil type, and detect plant diseases
- Built an end-to-end computer vision pipeline using OpenCV, Meta's SAM, and fine-tuned CLIP to localize diseases

Quantum-Inspired ML | Quantum Computing · Qiskit · Physics &

05/2024 - 08/2024

Intro to Quantum Computing Final Project

- Bridged physics with classical ML, reproducing Google's low-rank approximation paper with 98% MNIST accuracy
- Optimized parameterized quantum circuits on RPI's IBM Quantum System One

Skills

Languages & Tools

Python · C++ · SQL · Git

Cloud & Deployment

AWS · HuggingFace · Docker · FastAPI · OpenAI API

ML & Data Science

PyTorch · NumPy · Scikit-learn · TensorFlow · OpenCV ·

Pandas · EDA · Tableau Cloud

Soft Skills

Problem Solving · Collaboration · Effective Communication · Attention to Detail

Certificates

Databases and SQL for Data Science - 18 hrs 🔗

Stanford/DeepLearning.AI (May 2024)

IBM (Sep 2024)

Machine Learning Specialization - 80 hrs ∂