Abdullah Ahmed Alzahrani

AI/ML Engineer

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Summary

Machine Learning focused EE graduate with experience in data science, computer vision, NLP, and cloud ML tools. Recognized for technical skills and innovative solutions in predictive modelling and computer vision.

Education

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

08/2020 - 12/2024

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, New York, 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 to distill 200+ parameters for real-time inference, designed NN (91.15% accuracy)
- Delivered demo application for monitoring and preventive maintenance, meeting client requirements
- Ran correlation analysis on secondary dataset to simulate leak scenarios for training and validation
- Collaborated with engineers, presented findings to stakeholders, awarded "Outstanding Technical Progress"

Skills

Programming Languages

AWS · HuggingFace · Docker · FastAPI · OpenAI API

Python · C++ · SQL · Git

Soft Skills

ML & Data Science

Problem Solving · Collaboration · Effective Communication · Attention to Detail

Cloud & Deployment

Pandas · EDA · Tableau Cloud

Projects

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

05/2025 - Present

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

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

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

Bootcamps & Certificates

Al Bootcamp - 250 hrs 🔗 Tuwaiq Academy (May 2025) **Databases and SQL for Data** Science with Python - 18 hrs 🔗 **Machine Learning Specialization -**80 hrs 🔗

IBM (Sep 2024)

Stanford/DeepLearning.AI (May 2024)