

Abdulaziz Al-Tayar

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<https://github.com/az-tayar>

Data Scientist

Data Scientist with 2 years of experience in machine learning and deep learning, including CNN-based models for real-world applications. Strong engineering background with hands-on experience in training and evaluating ML/DL models using modern AI frameworks. Currently pursuing an MEng in Applied Artificial Intelligence at the University of Ottawa.

WORK EXPERIENCE

Nabeh

Riyadh, Saudi Arabia • 02/2024 - 12/2025

Computer Vision Engineer • Full-time

- Developed and implemented machine learning-based traffic prediction models using time-based vehicle count data to dynamically estimate and analyze traffic flow patterns at specific entry points.
- Built and refined image datasets by collecting, annotating, and filtering out non-useful frames using ML algorithms.
- Validated and tested data platforms by performing in-depth data analysis, identifying inconsistencies, and reporting errors or required adjustments to ensure overall data quality, accuracy, and reliability.
- Implemented a turnaround management system by integrating camera event detections and flight schedule data, building an end-to-end ML pipeline from ingestion to evaluation and validation.
- Developed a real-time ML inference pipeline to continuously predict off-block time, estimate event occurrence probabilities, and forecast the start and end times of dynamic turnaround events based on incoming operational data.

Future Look ITC

Riyadh, Saudi Arabia • 10/2023 - 02/2024

Data Scientist • Full-time

- Researched, sourced, and constructed datasets to support NLP model training and experimentation.
- Performed data generation, preprocessing, and quality evaluation to improve model performance.
- Conducted exploratory data analysis and visualizations, collaborating with teams to support data-driven NLP solutions.

King Abdullah University of Science and Technology - KAUST Thuwal, Saudi Arabia • 06/2022 - 09/2022

Visiting Student Researcher • Internship

- Applied Least Squares and Total Least Squares regression across multiple datasets with 10,000+ samples.
- Performed model testing and validation to compare accuracy and robustness under varying data conditions.
- Used data visualization to analyze regression performance and communicate results clearly.

SKILLS

- ML & DL:** Supervised/Unsupervised Learning, Deep Learning Architectures, DNNs, CNNs, RNNs, XGBoost
- Frameworks:** PyTorch, TensorFlow, Keras, Scikit-learn
- Model Engineering:** Model Training & Evaluation, Fine-Tuning, Inference Optimization, ONNX & ONNX Runtime
- Engineering Tools:** Python, Docker, Apache Kafka, Git & GitHub, Linux

EDUCATION

University of Ottawa

MEng in Electrical and Computer Engineering (Applied Artificial Intelligence)

Ottawa, Canada • 01/2026 - Present

King Fahd University of Petroleum and Minerals - KFUPM

BSc in Electrical Engineering • GPA: 3.77/4 (First Class Honor)

Dhahran, Saudi Arabia • 08/2018 - 06/2023

- 1st Place – 8th KFUPM Senior Design Project Expo.

- Peer-Reviewed Journal Publication derived from the award-winning senior design project.