

Abdullah Al-Shobaki

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SUMMARY

AI Engineer specializing in machine learning, deep learning, computer vision, NLP, and multimodal AI. Strong in Python and Swift with experience building, training, and deploying models using TensorFlow, PyTorch, YOLOv8, BERT, ViT, Core ML, and CloudKit. Skilled in end-to-end AI systems, on-device and cloud workflows, model optimization, data pipelines, evaluation, and applied problem-solving.

EXPERIENCE

AI Trainee - Apple AI Foundation Program

Apple Developer Academy | Twaiq

July 2025 - August 2025

- Developed "Thalaja", an AI-enabled shared grocery platform used by 10+ early users, enabling unified family lists, preventing duplicate entries, and reducing item miscommunication across households.
- Implemented real-time collaboration using CloudKit Shares, supporting multi-user sync verified across 3–4 devices simultaneously, offline-first updates, App Intents + push notifications, and full bilingual Arabic/English coverage with validated RTL UI behavior in 20+ interface components.
- Built an AI Capture & Delivery pipeline, including Gemini Vision image understanding assessed on 50+ grocery images, natural-language voice parsing reviewed using 30+ voice commands, and barcode recognition via OpenFoodFacts returning structured item data; completed in Swift/SwiftUI with HIG-compliant UI, Sign in with Apple + Supabase authentication, and released through TestFlight with initial testers onboarded.

AI Developer & Team Lead – Marsad (Smart Stadium AI Project)

SCAI (Saudi Company for Artificial Intelligence)

February 2025 - April 2025

- Developed "Marsad", an AI platform for real-time crowd safety, fan engagement, and player analytics, evaluated through 3 demo videos and 5 core scenarios.
- Built YOLOv8-based crowd detection, MediaPipe pose estimation, and an Arabic fan assistant chatbot, completing 7 functional modules and running 20+ small-scale algorithm checks during development.
- Produced a complete modular system on GitHub with 4 visual demo exports and 10+ model iteration cycles, aligned with Vision 2030 and FIFA 2034 goals.

AI Engineer - Wadeh Project (Arabic Grammar Analysis Project)

SDAIA (Saudi Data and Artificial Intelligence Authority)

August 2024 - October 2024

- Developed "Wadeh," an AI tool for automated Arabic grammar analysis using the ALLaM model, selected from 200+ submitted ideas in the competition.
- Evaluated 120+ Arabic sentences covering 25–30 core grammar structures to validate model behavior and rule consistency.
- Fine-tuned the ALLaM model through 8–12 iterative improvement cycles on Watsonx, improving output clarity and reducing errors across test samples.
- Reviewed the system on 100+ evaluation examples to confirm stability, correctness, and user readability of results.
- Completed a fully functional prototype, demonstrating strong time management and analytical problem-solving skills.

EDUCATION

Bachelor of Engineering and Natural Sciences / Artificial Intelligence Engineering

Bahçeşehir University • Istanbul, Turkey • 2026

High School Diploma

Horizon International School • Riyadh, Saudi Arabia • 2022

CERTIFICATIONS

IBM AI Engineering

Future AWS AI Engineer Nanodegree Program - Udacity (AWS AI & ML Scholars)

IBM Machine Learning Specialization

Data Science and AI Track - Twaiq Academy

Virtual Work Experience - Data Science and AI, Microsoft

Virtual Work Experience – Data Analysis, STC

IBM Data Science Specialization

SKILLS

Programming Languages: Python, Swift, SwiftUI, C++, R, SQL

Machine Learning & Deep Learning: TensorFlow, PyTorch, Keras, Scikit-learn, Core ML, Create ML, supervised learning, unsupervised learning, reinforcement learning, model training, tuning, evaluation, deployment

Computer Vision: OpenCV, YOLOv8, MediaPipe, Vision Transformers (ViT), real-time image/video processing, Gemini Vision API

Natural Language Processing: Transformers, BERT, DistilBERT, Arabic NLP, chatbot development, text classification, Gemini NLP

Generative AI & LLMs: AWS Bedrock, Retrieval-Augmented Generation (RAG), prompt engineering, responsible AI workflows

Data Science & Analytics: Pandas, NumPy, Matplotlib, Seaborn, data cleaning, preprocessing, EDA, feature engineering, Power BI

Cloud, Backend & Mobile Integration: CloudKit, Azure, Supabase, REST APIs, App Intents, iOS app development, on-device ML optimization

Mathematics for AI: linear algebra, probability, statistics

Tools & Design: Git/GitHub, Docker, Kubernetes, Figma, Apple Human Interface Guidelines