

FAHAD ALOTAIBI

AI & Machine Learning | Computer Science Student

@ Otaibfmf@gmail.com +966 53 911 1579 in Fahad Alotaibi

PROFILE

CS student at PMU building AI-powered pipelines and data-driven systems, with hands-on experience in NLP, speech processing, and async backend development.

EXPERIENCE

Game Development Member

Google Developers Group (GDG) on Campus

Prince Mohammed Bin Fahd University

- Proposed and hosted a game jam to promote hands-on learning and collaborative software development.
- Designed an interactive word-guessing game to demonstrate gameplay mechanics and player engagement.

PROJECTS

Maqta3 — AI Arabic Video Highlights Generator

Python • FastAPI • Whisper • MarianMT • XTTSv2 • FFmpeg

- Built an end-to-end async pipeline that transforms long-form videos into Arabic highlight clips, handling transcription, translation, voice synthesis, and video editing in a single workflow.
- Integrated Whisper, MarianMT, and XTTSv2 into a FastAPI backend with async job processing for multi-model inference.
- Applied NLP scoring to rank segments by engagement; used an LLM to convert MSA subtitles to Saudi dialect and synthesized native voiceovers with XTTSv2.

DatasetAuditor — Saudi Open Data Quality Auditor

Python • FastAPI • React • PostgreSQL • scikit-learn • Docker

- Built a full-stack auditing platform that fetches datasets from data.gov.sa and scores them across 7 quality dimensions into a weighted A–F grade.
- Developed an async FastAPI backend with PostgreSQL persistence, background bulk-audit jobs, and a PDF report generator using ReportLab.
- Integrated four ML components: NLP topic classifier, abandonment-risk predictor, Isolation Forest anomaly detection, and K-Means quality clustering.

Matrix Operations Library

Python • Linear Algebra • No External Libraries

- Built a Python library implementing core linear algebra operations from scratch — including a custom parser for augmented matrices — without NumPy or any external dependencies.

EDUCATION

B.S. in Computer Science,
Prince Mohammad Bin Fahd University

Expected December 2026

Relevant Coursework:

- Artificial Intelligence
- Machine Learning
- Data Structures
- Algorithms
- Databases
- Linear Algebra & Differential Equations

SKILLS

Programming Languages

- Python, Java, SQL, Bash

Artificial Intelligence / Machine Learning

- Dimensionality Reduction & Classification: UMAP, SVM
- Async ML Pipelines (FastAPI)
- Linear Algebra & Matrix Operations

Software Engineering

- Object-Oriented Design
- Algorithm Design & Implementation
- REST API Development

Databases

- PostgreSQL, Oracle SQL, MongoDB

Tools

- Git, GitHub, Jira, Jupyter Notebook

CERTIFICATIONS

Network Technician Career Path

Cisco 2026

AWS Educate Machine Learning Foundations

Amazon Web Services 2025

Introducing Generative AI with AWS

Amazon Web Services 2025

Oracle SQL Foundations

Oracle 2024