



Aisha Mohamed Ibrahim

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Summary

Interested in AI and motivated to contribute to real-world projects. I have hands-on experience in machine learning, computer vision, and retrieval-augmented generation (RAG) systems. Skilled in Python and data analysis, with a strong focus on applying AI to solve real problems. I am eager to keep learning and contribute to impactful projects.

Education

King Saud University Bachelor's Degree in Computer Science GPA: 4.7/5 | 2026

- **Coursework:** Artificial Intelligence, Machine Learning, Linear Algebra, Data mining, Image processing.

Certificates

Advanced Artificial Intelligence | KAUST, 2026

Introduction to Artificial Intelligence | KAUST, 2026

AWS AI Scientist Nanodegree | Udacity, 2025

AWS Educate Machine Learning Foundations | AWS, 2025

IBM – Data Analysis with Python | Coursera, 2025

Projects

Deep Transfer Learning for Automated Grocery Quality Classification | Graduation Project - 2026

- A model for classifying and assessing the quality of fruits and vegetables using YOLOv8 and image processing techniques. Built and curated a custom dataset containing 32 popular fruit and vegetable categories commonly found in Saudi Arabia. Achieved 98.24% classification accuracy, and designed the quality model to classify produce into three quality classes with explainable decision-making.

AI-Powered Portfolio - RAG | 2026 - Live Demo

- Developed an AI-powered personal portfolio using Retrieval Augmented Generation with vector embeddings and semantic search using Chroma and GPT-5 to answer user queries based on personal data.
- Designed and developed my personal portfolio using HTML, CSS, and JavaScript.

Connect Four game - Machine Learning | 2025 - Live Demo

- Designed and developed an ensemble ML model for Connect Four capable of playing the game by predicting the next optimal move using board-state data. The model combines CNN and Gradient Boosting models through an ensemble voting strategy to improve gameplay decisions.

Contribution:

- Contributed to designing the page flow and overall layout of the Aoun Club website as part of the technical committee (2025 - 2026).

Skills

Technical Skills:

- **Programming:** Python, C, Java, JavaScript, HTML, CSS, SQL.
- **Machine Learning & Deep Learning:** Supervised & Unsupervised Learning, Transfer Learning, Fine-Tuning.
- **AI & LLM:** RAG, Prompt Engineering, OpenAI API.
- **Frameworks & Libraries:** PyTorch, LangChain, Scikit-learn, Pandas, NumPy, OpenCV.

Soft Skills: Problem-solving, Decision-making, Teamwork, Communication, Attention to Detail, Creativity, Adaptability.