AHMED SAEED ALYAZID

Artificial Intelligence ◆ Machine Learning ◆ Data Science ◆ Computer Vision

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PORTFOLIO ahmed-portfolio-2e0.pages.dev

◆ PROFILE

Artificial Intelligence graduate from Umm Al-Qura University (GPA 3.37/4.00, Second-Class Honors), currently Computer Science Supervisor and the only AI specialist on the AI team at Al-Marefah Private Schools. Experience in controlled computer-vision research, applied machine learning and a production Arabic platform in daily use; the linked portfolio runs three of my models in the browser.

◆ EXPERIENCE

Computer Science Supervisor & AI Team Member

Aug 2026 – Present

Al-Marefah Private Schools · Makkah · Contract title: Secondary School Teacher

- Supervise and support the school's computer science teachers, following up on their instructional work and professional development.
- The only AI specialist on the school's artificial intelligence team, contributing practical AI and digital solutions for academic and administrative workflows.
- Designed and built the Educational Supervision Platform (below), in active use by supervisors and the unit head, with school-wide rollout underway.

◆ EDUCATION

B.Sc. Artificial Intelligence

2022 – 2026

Umm Al-Qura University, College of Computing · GPA 3.37 / 4.00 · Very Good, Second-Class Honors

◆ SELECTED WORK

Educational Supervision Platform

Production · 2026

Live Arabic platform · almarefah-supervision.pages.dev

- Arabic RTL workflows for supervision visits, structured records, approvals, dashboards and reporting, with official PDF, Word and Excel exports.
- Cloudflare Pages and Workers, D1, Better Auth and private Backblaze B2 storage, with server-side role and scope authorization and off-device backups.

Comparative Deep-Learning Research for Glaucoma Classification

Team graduation project · 2025 – 2026

- Controlled comparison of six conditions on 4,828 synthetic retinal fundus images with stratified 3-fold cross-validation.
- ViT-Small and ResNet-18 feature extraction and fine-tuning; KAN-Transformer and MLP-Transformer trained from scratch. Best reported ResNet18-FT: `accuracy 0.963` `AUC-ROC 0.996`
- Python and PyTorch; calibration, bootstrap confidence intervals, peripheral-occlusion diagnostics and Attention Rollout.

Interactive academic machine-learning projects

Coursework · runnable in the portfolio

- **Animal image classification** (CNN, nine classes): retrained on 827 coursework images, 88.9% held-out accuracy, with inference in the browser.
- **Diamond price regression** from length, width and depth: MAE $241, RMSE $329 and R^2 0.904 on held-out data.
- **Obesity model audit** and decision-tree retraining on 2,086 records: 89.6% accuracy on a 626-record holdout. Educational use only.

◆ TECHNICAL SKILLS

Languages & data	Python, SQL, Java, Pandas, NumPy, Matplotlib
Machine learning	PyTorch, TensorFlow/Keras, scikit-learn, CNNs, Vision Transformers, ResNet, transfer learning
Evaluation	Cross-validation, AUC-ROC, calibration, bootstrap confidence intervals, explainability
Cloud & delivery	Git/GitHub, Cloudflare Pages, Workers, D1, Better Auth, Backblaze B2

◆ CERTIFICATIONS & LANGUAGES

Introduction to Artificial Intelligence Edraak · 2022

Digital Skills in Artificial Intelligence Edraak · 2022

Arabic — native

English — professional working proficiency