

## Sara Elhaj

Senior AI Engineer — Riyadh, Saudi Arabia

Email: sara.elhaj17@example.com | Phone: +966523159201

### Professional Summary

Experienced Senior AI Engineer with a strong track record of building production-grade machine learning systems, from data engineering and model training to deployment and monitoring. Skilled in both research prototyping and scalable MLOps practices. Proven ability to lead cross-functional teams and deliver business impact.

### Technical Skills

NumPy, API Development (FastAPI), SQL, GCP (BigQuery), OpenCV, Keras, PyTorch Lightning, Computer Vision (YOLO, Detectron2)

### Professional Experience

#### ML Researcher — InnoAI Labs (1 yrs)

- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
- Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

#### AI Engineer — DataForge (2 yrs)

- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.

### Selected Projects

- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
- Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.

### Education

PhD Candidate in Machine Learning — Research Institute (ongoing)

### Certifications

- TensorFlow Developer Certificate
- AWS Certified Machine Learning – Specialty

### Languages

English (Fluent), French (Conversational)

*Generated sample resume — 2025-09-30*