

Maya Elhaj

ML Researcher — Riyadh, Saudi Arabia

Email: maya.elhaj7@example.com | Phone: +966558891962

Professional Summary

Experienced ML Researcher 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

MLflow, Linux, Docker, Spark, DVC, CI/CD (Jenkins/GitHub Actions), Python, CUDA

Professional Experience

ML Researcher — AIWorks (2 yrs)

- 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%.
- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.

Machine Learning Engineer — DeepSystems (13 yrs)

- 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%.
- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.

Selected Projects

- Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
- Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.
- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

Education

MSc in Data Science — Institute of AI, 2021

Languages

French (Conversational), English (Fluent)

Generated sample resume — 2025-09-30