

Adam Tariq

Senior AI Engineer — Beirut, Lebanon

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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

PyTorch Lightning, DVC, Linux, Spark, Kubernetes, API Development (FastAPI), Reinforcement Learning, MLflow, Keras, Hugging Face Transformers

Professional Experience

Deep Learning Engineer — Nova Analytics (5 yrs)

- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
- Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
- Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

Senior AI Engineer — EdgeAI Solutions (2 yrs)

- Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
- 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.
- Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.

Selected Projects

- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
- Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

Education

BSc in Computer Engineering — University of Science, 2016

Certifications

- TensorFlow Developer Certificate

Languages

English (Fluent), Arabic (Native)

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