

Khalid Tariq

AI Engineer — Dubai, UAE

Email: khalid.tariq6@example.com | Phone: +971586204998

Professional Summary

Experienced 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

Docker, PyTorch Lightning, Hugging Face Transformers, Tableau, NoSQL (MongoDB), TensorFlow, API Development (FastAPI), Keras, Anomaly Detection, Computer Vision (YOLO, Detectron2), scikit-learn, Python

Professional Experience

Senior AI Engineer — Nova Analytics (1 yrs)

- 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.
- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

NLP Engineer — InnoAI Labs (2 yrs)

- 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.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.

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.

Education

PhD Candidate in Machine Learning — Research Institute (ongoing)

Certifications

- AWS Certified Machine Learning – Specialty
- TensorFlow Developer Certificate

Languages

French (Conversational), Arabic (Native)

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