Omar Moussa

Senior AI Engineer — Dubai, UAE
Email: omar.moussa2@example.com | Phone: +971537204104

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

AutoML, Keras, Time Series, NumPy, Pandas, Reinforcement Learning, DVC, NoSQL (MongoDB), CI/CD (Jenkins/GitHub Actions)

Professional Experience

AI Engineer — DeepSystems (3 yrs)
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• 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.
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

ML Researcher — VisionaryTech (8 yrs)
• 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%.

NLP Engineer — EdgeAI Solutions (1 yrs)
• Implemented continuous training pipeline using DVC and GitHub Actions to automate model retraining and versioning.
• 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

• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

Education

MSc in Computer Science, Machine Learning Track — University of Technology, 2019

Languages

English (Fluent), Arabic (Native)

Generated sample resume — 2025-09-30