Sara Karim

Machine Learning Engineer — Amman, Jordan
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Professional Summary

Experienced Machine Learning 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, Kubernetes, Docker, Azure ML, CUDA, NumPy, DVC, scikit-learn, CI/CD (Jenkins/GitHub Actions), Time Series, Kafka, PyTorch

Professional Experience

NLP Engineer — VisionaryTech (2 yrs)
• 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.
• Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.

ML Researcher — VisionaryTech (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.

Computer Vision Engineer — EdgeAI Solutions (2 yrs)
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.

MLOps Engineer — MachineSense (1 yrs)
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.
• 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 knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.

Selected Projects

• 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.
• Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
• Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.

Education

BSc in Computer Engineering — University of Science, 2016

Certifications

• TensorFlow Developer Certificate
• AWS Certified Machine Learning – Specialty

Languages

English (Fluent), Arabic (Native)

Generated sample resume — 2025-09-30