Maya Farouq

MLOps Engineer — Cairo, Egypt
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Professional Summary

Experienced MLOps 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

CUDA, Computer Vision (YOLO, Detectron2), Linux, Time Series, NoSQL (MongoDB), Kafka, SQL, Python, Spark, DVC, Docker, OpenCV, scikit-learn, AutoML

Professional Experience

AI Engineer — SmartML (1 yrs)
• 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.
• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
• Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

AI Engineer — EdgeAI Solutions (1 yrs)
• Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
• Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.

AI Engineer — MachineSense (1 yrs)
• Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.
• 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%.
• 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.

Education

MSc in Data Science — Institute of AI, 2021

Certifications

• Certified Kubernetes Application Developer (CKAD)

Languages

English (Fluent), Arabic (Native)