Ethan Moussa

ML Researcher — Remote
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Professional Summary

Experienced ML Researcher 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

Linux, NumPy, PyTorch, Tableau, PyTorch Lightning, TensorFlow, CI/CD (Jenkins/GitHub Actions), Pandas

Professional Experience

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

MLOps Engineer — VisionaryTech (1 yrs)
• Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
• 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.
• 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%.

Education

BSc in Computer Engineering — University of Science, 2016

Languages

French (Conversational), English (Fluent)

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