

Hana Khalil

Senior AI Engineer — Remote

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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

NoSQL (MongoDB), OpenCV, AWS (S3, EC2, SageMaker), Tableau, Azure ML, TensorFlow, PyTorch, Time Series, Anomaly Detection, CI/CD (Jenkins/GitHub Actions), SQL

Professional Experience

AI Engineer — Nova Analytics (1 yrs)

- Built recommendation system using collaborative filtering + content-based features; increased CTR in A/B test by 12%.
- Architected resume-parsing NLP pipeline using transformer-based models, custom NER, and rule-based post-processing to extract structured candidate data.

Senior AI Engineer — CloudScale (1 yrs)

- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
- 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%.

Selected Projects

- Implemented knowledge distillation to create lightweight transformer models for edge deployment with 3x speedup.
- Fine-tuned multilingual speech recognition model (wav2vec2) for domain-specific calls with 5% error reduction.

Education

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

Certifications

- Google Cloud Professional Data Engineer

Languages

English (Fluent), Arabic (Native)

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