

# Salma Karim

Senior AI Engineer — Amman, Jordan

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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

PyTorch, GCP (BigQuery), Anomaly Detection, NoSQL (MongoDB), SQL, MLflow, Keras, Kafka, scikit-learn, Docker, Hugging Face Transformers, Python, AWS (S3, EC2, SageMaker), Spark

## Professional Experience

### ML Researcher — Nova Analytics (1 yrs)

- Deployed scalable inference service on AWS with autoscaling, containerization (Docker), and serverless endpoints; reduced latency to <120ms.
- Led an end-to-end image segmentation project for medical imagery; built data pipeline, trained U-Net variants, and reduced labeling time by 40%.
- 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.

### AI Engineer — MachineSense (1 yrs)

- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.

## Selected Projects

- Optimized model inference using TensorRT and mixed precision; achieved 2.5x throughput improvement on GPU.
- Designed and implemented an anomaly detection system for fraud detection using autoencoders and XGBoost for post-filtering.
- 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

- Coursera: Deep Learning Specialization

## Languages

English (Fluent), Arabic (Native)

Generated sample resume — 2025-09-30