

Masoud Rezvaninejad

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Deep Learning researcher and Master's student (UvA) with a published track record in Generative AI (GANs). Brings 4+ years of engineering experience in building robust data pipelines (Airflow, Python) and deploying models at scale (Docker, AWS). Passionate about advancing state-of-the-art Vision Language Models (VLMs) and applying rigorous engineering practices to research frontiers.

Technical Skills

Programming Languages: Python, HTML, Go (intermediate), Rust (intermediate)

Tech Stack: Git, AWS, Latex, GUROBI(intermediate)

Soft skills: Problem Solving, Clear Communication, and Cross-team coordination

Publications

WDAE-GAN: Hybrid Generative Models for Rare-Event Detection | [Expert Systems with Applications](#)

Designed a novel hybrid architecture combining Wasserstein GANs (WGAN-GP) for synthetic data augmentation and Dual Autoencoders for latent representation learning.

EXPERIENCE

Baly.iq (Rocket Internet), Data Scientist

Feb 2024 - Nov 2025

The #1 super app in Iraq

- Engineered large-scale data processing pipelines using Python and Airflow to curate and clean unstructured datasets, directly enabling downstream ML training.
- Analyzed customer and transaction journey data to map data sources and improve anomaly detection accuracy.
- Tuned database systems using Percona PMM to speed up query response by **20 %**, ensuring **99.8 % HA**.
- Deployed containerized services with Docker and Ansible to deliver key business features faster when the tech team's backlog delayed development; took ownership of deployment to keep operations on schedule.

Snapp! (Rocket Internet), Fraud Data Analyst

Sep 2020 - Feb 2024

The #1 super app and ride-hailing app in Iran

- Investigated raw logs, relational tables, and metadata sources to design SQL and Python detection rules, identifying anomalies 40% faster.
- Collaborated on dataset curation for foundation model training by structuring raw logs into high-quality, ML-ready formats.
- Took initiative to learn automation and containerization, laying the groundwork for more scalable fraud-detection tools later used in production.

EDUCATION

UvA

Sep 2025 - Expected 2026

Data science | Master

University of Tehran

Sep 2017 - Sep 2019

MBA | Master

AmirKabir University of Technology

Sep 2012 - Nov 2016

Industrial Engineering | BSc

Projects

AI seminar - Vision-Language Model for DocVQA: Developed a VLM pipeline fusing visual embeddings (CLIP, ResNet) with transformer-based LLMs to reason over document layouts. Implemented PyTorch training workflows for multimodal alignment.

LLM Fraud Detection: Designed and trained a fraud-detection model for Arabic text using transformer-based LLMs; applied data-cleaning and evaluation pipelines to make results reproducible for future use cases. [\[Link\]](#)

Interactive Model Interpretation Dashboard: Built and deployed an interactive dashboard using SHAP and feature-importance visuals; developed end-to-end APIs with FastAPI for model training, evaluation, and visualization; containerized the system with Docker [\[Link\]](#).

S3-MinIO Starter Kit: Built a local S3-compatible storage system using Docker and MinIO to test data pipelines without cloud cost; later extended a similar setup on AWS EC2 to explore real-environment behavior [\[Link\]](#).

Languages

English (Fluent) - Dutch (Basic)