AGHASALIM MUSTAFAZADA

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EDUCATION

Howest University of Applied Sciences Sep 2024 – Jun 2027 (expected)
Bachelor of Creative Technologies & Artificial Intelligence (CTAI) *Kortrijk, Belgium*

- Coursework: Advanced Deep Learning, Computer Vision, Reinforcement Learning, Machine Learning Operations (MLOps), and Artificial Intelligence (AI) Ethics.

STEP IT Academy Azerbaijan Sep 2017 – Jun 2023
Diploma, Programming & IT *Baku, Azerbaijan*

TECHNICAL SKILLS

Languages: Python, C++, SQL, JavaScript
Machine Learning: PyTorch, TensorFlow, scikit-learn, Computer Vision (Convolutional Neural Networks (CNN), You Only Look Once (YOLO), OpenCV), Natural Language Processing (NLP)/Transformers, Retrieval-Augmented Generation (RAG) and retrieval evaluation, Reinforcement Learning
Data & Infrastructure: Docker, Docker Compose, FastAPI, Flask, MLflow, Continuous Integration/Continuous Delivery (CI/CD), Prometheus/Grafana, PostgreSQL, MongoDB, Amazon Web Services (AWS)/Google Cloud Platform (GCP), Git/GitHub, Linux
Embedded: Arduino, Raspberry Pi, embedded AI, Light Detection and Ranging (LiDAR) and camera sensor fusion

PROJECTS

Kaggle Competition Bronze Medal — Radiological Society of North America (RSNA) Knee Abnormality Detection

- Placed 448th of 6,300 teams (top 7%) in the RSNA medical-imaging competition on Kaggle; medal awarded 22 Oct 2026.

Explainable Visual Defect Detector

- Reimplemented PatchCore (Conference on Computer Vision and Pattern Recognition (CVPR) 2022) for unsupervised industrial defect detection; 0.987 mean Area Under the Receiver Operating Characteristic curve (AUROC) across all 15 MVTec Anomaly Detection (MVTec-AD) dataset categories, shipped as a live demo.
- Diagnosed a silent thresholding fault where a 99th-percentile cut-off was estimating the 96th, and documented the categories where the method cannot work rather than tuning around them.

European Union (EU) AI Act Retrieval-Augmented Generation (RAG) System

- Grounded question-answering (QA) system over EU AI Act regulation text; hybrid retrieval reached 90.9% hit-rate@6 and 90.2% answer faithfulness across 45 hand-written evaluation questions.

Fraud Detection & MLOps Pipeline

- Leakage-safe validation on a 590K-transaction dataset, scoring 0.909 private-leaderboard Area Under the Curve (AUC); served via FastAPI (Application Programming Interface), versioned in MLflow, with automated drift monitoring.

Autonomous Drone Navigation (simulation)

- In simulation, built LiDAR/camera sensor-fusion navigation with reinforcement-learning path planning, achieving collision-free routing across simulated high-density urban environments.

EXPERIENCE

Head of Information Technology (IT) Jun 2024 – Present
Adscreen *Baku, Azerbaijan (remote)*

- Build and operate the software and backend for a fleet of Android kiosk tablets in vehicles: Flutter/Kotlin app, telemetry and proof-of-play reporting, over-the-air updates, and automated recovery.
- Cut per-tablet cellular data about 3× by removing duplicate heartbeats and connection overhead; run the backend services with Docker Compose and Prometheus/Grafana monitoring.

AI Developer / Student Researcher Sep 2024 – Jun 2025
Howest University of Applied Sciences *Kortrijk, Belgium*

- Engineered predictive machine learning (ML) models and transformer-based NLP pipelines for industry-partner research projects.
- Developed computer-vision recognition systems (CNN, YOLO, OpenCV) and C++ simulation modules supporting research experiments.
- Introduced A/B testing and cross-validation protocols to standardise experiment methodology, making results reproducible across partner projects.

Programming Instructor Apr 2019 – Dec 2023
STEP IT Academy Azerbaijan *Baku, Azerbaijan*

- Taught programming and AI to 200+ students; supervised capstone AI projects from data preprocessing through deployment.
- Built 5+ AI-embedded prototypes integrating Python ML models with microcontrollers, used as standard reference projects for student coursework.

LEADERSHIP

Founder & Team Lead — RED RUSH / ARENA FEST Jan – Oct 2024
Event Leadership & Entrepreneurship *Baku, Azerbaijan*

- Founded and led RED RUSH and ARENA FEST; moved to a remote advisory role in June 2024, delegating daily operations to local management while keeping strategic oversight.
- Led 30+ volunteers as Team Leader at Red Bull F1 and Cars & Coffee events, coordinating directly with brand managers.