

Eyup Ulker

AI Engineer · Computer Vision · MLOps · Physics

Istanbul, Turkey | +90 535 469 99 31 | eyupulkerr@gmail.com | linkedin.com/in/eyupulker

SUMMARY

AI Engineer with 2+ years of hands-on experience building production ML systems, scalable data infrastructure, and browser automation platforms. Architected distributed data collection networks on Kubernetes, developed real-time Detect & Avoid systems for autonomous drones, and engineered CDP-based skill systems turning web workflows into programmable APIs for AI agents. Physics background provides strong foundations in mathematical modeling and first-principles problem solving. Available for full-time roles starting June 2026.

TECHNICAL SKILLS

ML / AI	PyTorch, TensorFlow, OpenCV, scikit-learn, XGBoost, Deep Learning, Computer Vision, Object Detection, Image Segmentation, Signal Processing
Infrastructure	Docker, Kubernetes, FastAPI, Google Cloud Platform (Cloud Run, Cloud Storage, Compute Engine), CI/CD, MLOps, Chrome DevTools Protocol (CDP), Playwright, Tor
Languages	Python, TypeScript, C++, SQL, C#, Go
Tools	NumPy, pandas, SciPy, Git, Postman, Sphinx, pynetdicom

EXPERIENCE

AI Engineer — Olympos

Sep 2025 – Present

Data infrastructure, browser automation, and ML-powered web intelligence platform

- Architected distributed data collection infrastructure with **Docker** containers and rotating proxy networks, processing millions of records across multiple cloud nodes on **GCP**.
- Engineered **Chrome DevTools Protocol (CDP)** skill system converting complex web workflows into programmable CLI APIs for AI agents — 100+ commands across 30+ skills powering a **Claude Code plugin**.
- Built **Android CDP skill**: ADB-based CLI giving AI agents control over mobile devices — UI automation, app management, HTTPS interception via mitmproxy, and SSL unpinning with Frida.
- Developed anti-detection solutions including **TLS fingerprint** impersonation, session management, and browser-routed API requests to handle WAF/CDN protections at scale.
- Built investor probability models and founder classifiers using **vector similarity search** and decision tree ensembles for deal intelligence.

AI Engineer — SiFly (Internship)

Apr 2025 – Jul 2025

Computer vision for autonomous drone systems

- Developed real-time **Detect and Avoid** computer vision system for autonomous drones using **PyTorch** and **OpenCV**, enabling safe flight in complex airspace environments.

Machine Learning Engineer — Vitamu

Jul 2023 – Nov 2024

End-to-end ML pipeline development for image analysis products

- Built image preprocessing pipelines and trained **segmentation models** (U-Net variants) and classical ML classifiers, directly improving product accuracy and user experience.
- Designed and implemented a **weak labeling** system that reduced manual annotation effort by ~60%, accelerating model iteration cycles from weeks to days.
- Deployed models via **CI/CD pipeline**, managing the full lifecycle from training to production serving.
- Documented APIs and codebases with **Sphinx**, cutting new developer onboarding time.

Junior AI Researcher — Earth-ML, Bogazici University

Sep 2022 – Jan 2023

Deep learning research for geophysical data processing

- Implemented **ResNet** and **VAE** architectures in PyTorch for denoising InSAR satellite imagery, improving signal-to-noise ratio for earthquake deformation analysis.
- Applied signal processing techniques (**Wavelet Transforms**, STALTA, Template Matching) to seismological datasets, combining physics domain knowledge with ML methods.

EDUCATION

Bogazici University — B.Sc. Physics

Sep 2019 – Jun 2026

Key coursework: Machine Learning Applications in Physics (Symbolic Regression, GNNs, RBMs), Machine Learning (SVM, CNN, NNs), Numerical Methods, Computer Vision, Computer Networking, Group Theory

Kadir Has University — Vocational Degree, Computer Programming

Sep 2017 – Jun 2019

Key coursework: Operating Systems, Object-Oriented Programming (Java), Database Systems (SQL)

CERTIFICATIONS & TRAINING

Quantum Optics 1 & 2 (Ecole Polytechnique) · Qiskit Global Summer School 2022 · Neural Networks and Deep Learning · Structuring ML Projects