



Ahmad Asadi

Computer Vision
Researcher

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Top Skills

- Computer Vision
- Image Processing
- Deep Learning
- Machine Learning
- Python
- Pytorch
- Torch Vision
- OpenCV
- Numpy
- Pandas
- Numba
- CUDA
- GPU Optimization

About

I'm a passionate Computer Vision Engineer with hands-on experience building and deploying deep learning systems for visual recognition tasks. Demonstrated experience contributing to open-source projects, developing real-time AI applications, and assisting in academic research. Proficient in Python, PyTorch, and OpenCV, with practical experience deploying models on CUDA-enabled GPUs. Currently involved in computer vision research, including a submitted manuscript on scale-compensated training for kidney stone and brain tumor detection, and serving as a peer reviewer for computer vision research in the journal Expert Systems with Applications (Elsevier).

Research

- Under Review Article**
Scale-Compensated Training A Generalizable Paradigm for Small Object Detection in Medical Imaging
January 2026
Submitted to Expert Systems with Applications (Elsevier).

Work Experience



- Computer Vision Intern**
Resanai . Part-time
Dec 2025 - Feb 2026 . 2mos
Worked on computer vision tasks using PyTorch. Studied fundamentals of computer vision, linear algebra, and PyTorch



- Cyber Security Intern**
IDA Ltd Part-time
Mar 2024 - Jul 2024 . 5mos
Learned OpenStreetMap (OSM), code signing, and digital certificates (CRT, PFX). Worked with timestamping, patching, and hash handling techniques



- Software Engineer Intern**
Green Network Knowledge . Full-time
Jul 2022 - Aug 2022 . 1mos
Built web applications for employee profile presentation. Developed reusable card components for a profile presentation system

Reviewing



- Peer Reviewer - Elsevier Journal**
Elsevier
May 2026
Peer Reviewer - Elsevier Journal
(Expert System With Application)

Languages

English (Professional Working)

Persian (Native)

Certificates

Fundamentals of Accelerated
Computing with CUDA Python -
NVIDIA

Getting Started with Deep
Learning - NVIDIA

Deep Learning based on
Computer Vision

Computer Vision and Image
Processing with OpenCV -
Maktabkhooneh

Python Programming - CS50
(Harvard University)

Python Programming -
Technical & Vocational Training

Introduction to Linear Algebra -
Maktabkhooneh

Academic Experience



Research and Teaching Assistant

University of Tehran

May 2025 - Feb 2026

Assisted in course Machine Learning. Collaborating on anomaly detection research projects under faculty supervision.



Teaching Assistant

University of Zanjan

Sep 2021 - Jul 2024

Assisted in courses: Artificial Intelligence, Programming Languages, Compiler Design, Logic Circuits, and Fundamentals of Programming - taught students in C, C++, and Python through lectures, labs, and practical assignments.



Open-Source Contributor

M3-Lab's IM-IAD Project

2023

- Resolved two open issues in the "IM-IAD Industrial Image Anomaly Detection" GitHub repository.
- Enhanced code compatibility for Google Colab execution.

Projects

- Real-Time Gesture Detection:** Developed a CUDA-accelerated application using OpenCV and PyTorch for hand gesture recognition
- Grayscale Image Colorization:** Implemented deep learning models to colorize grayscale images.
- Face Recognition & Swapping:** Built applications for face detection, recognition, and swapping using deep learning techniques.
- Kidney Stone Detection:** Currently developing a YOLO-based model for detecting kidney stones, incorporating adversarial attack strategies.
- and **+40** other **AI** Related Projects in [Github](#)

Education



University of Tehran

Master's degree, Computer Science and Artificial Intelligence

Sep 2024 - Now

Grade : 16.17/20



University of Zanjan

Bachelor's degree, Computer Software Engineering

Sep 2020 - Sep 2024

Grade : 18.08/20

Second Ranked Student (Top 2.5%)



National Organization for Development of Exceptional Talents (Sampad)

High School Diploma, Math and Physics

Sep 2017 - Jun 2020

Grade : 17.83/20