Ahmad Asadi

Computer Vision & Deep Learning Researcher

Contact

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Top Skills

Computer Vision

CUDA

GPU Optimization

Pytorch

Deep Learning

Machine Learning

Languages

English (Professional Working)

Persian (Native)

Certificates

Fundamentals of Accelerated Computing with CUDA Python - NVIDIA

Computer Vision and Image Processing with OpenCV - Maktabkhooneh

Python Programming - CS50 (Harvard University)

Python Programming - Technical & Vocational Training

About

I'm a Passionate Machine Learning Engineer with hands-on experience building and deploying deep learning systems for vision and NLP.Demonstrated experience in contributing to open-source projects, developing real-time AI applications, and assisting in academic research. Proficient in Python, PyTorch, TensorFlow, and OpenCV, with hands-on experience in deploying models using CUDA-enabled GPUs.

Experience

Research Assistant
University of Tehran
May 2025 - Present
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

University of Zanjan
Bachelor's degree, Computer Software Engineering
Sep 2020 - Sep 2024
Grade : 18.08/20
Second Ranked Student (Top 2.5%)