

Shayan Jafari

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Professional Summary

Junior AI Research Engineer with hands-on experience in Deep Learning, Computer Vision, Medical Imaging, and Reverse Engineering. Experienced in implementing research papers, studying modern neural architectures, and contributing to AI-driven projects. Passionate about Vision Transformers, hybrid deep learning models, and intelligent systems for real-world applications. Strong analytical mindset with practical experience in technical documentation, binary analysis, and collaborative software development.

Education

Islamic Azad University, Central Tehran Branch

Bachelor of Science in Computer Science

2023 – Present

Current Semester: 6

National Organization for Development of Exceptional Talents (SAMPAD)

High School Diploma

2017 – 2023

Professional Experience

Reverse Engineer

Arad

Jan 2026 – Present

- Participating in reverse engineering of proprietary embedded control systems.
- Static and dynamic binary analysis.
- Working with custom assembly inside IDA Pro.
- Technical documentation.
- Validation of custom decompiler outputs.
- Collaborating with software and mechanical engineering teams.

Artificial Intelligence Programmer (Intern)

ICT Research Institute

Dec 2024 – Jan 2026

- Implemented LungMaxViT research paper.
- Developed an AI model for classification of 14 pulmonary diseases and one healthy class.
- Studied Vision Transformer architectures.
- Built and evaluated Deep Learning pipelines.
- Conducted implementation and experimentation independently under research supervision.

Selected Projects

Lung Disease Classification using Deep Learning

- Research implementation of LungMaxViT.
- Medical Image Classification.
- Vision Transformers.
- PyTorch.
- CNN.

Embedded System Reverse Engineering

- Binary Analysis
- Static Analysis
- Dynamic Analysis
- IDA Pro
- Custom Assembly Analysis
- Decompiler Validation

Technical Skills

Programming

Python, C, C++, Assembly Analysis

AI

Deep Learning
Machine Learning
Computer Vision
Medical Imaging
Vision Transformers
CNN
Image Classification

Frameworks

PyTorch
TensorFlow
Keras

Tools

IDA Pro
Git
GitHub
Kaggle
Jupyter Notebook

Operating Systems

Windows
Ubuntu
Fedora

Technical Interests

Artificial Intelligence

- Deep Learning

- Computer Vision

- Medical Imaging

- Vision Transformers

- Reverse Engineering

- Foundation Models

- Low-Level Programming

Presentation

University Technical Seminar

- Imbalanced Data in Artificial Intelligence

Certificates

Deep Learning

- Data Engineering

- Python Programming

- Advanced Artificial Intelligence (In Progress)

Honors

Ranked 5th in National Physics Olympiad

- Graduate of National Organization for Development of Exceptional Talents (SAMPAD)

Languages

Persian (Native)

- English (Upper-Intermediate)

- Able to read research papers, technical documentation, and software manuals.

Soft Skills

Problem Solving

- Research Mindset

- Fast Learning

- Technical Documentation

- Team Collaboration

- Analytical Thinking

- Strong Work Ethic