

Nima Baselizadeh

Artificial intelligence engineer

DoB: 1994-08-29

Marital Status: Single

Military Service: Served

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Profile Summary

I am a Machine Learning Engineer with 7 years of experience specializing in computer vision. My expertise spans both classical image processing techniques and cutting-edge computer vision methods. I am passionate about keeping up with the latest technologies and continually refining my skills in this fast-changing field.

In addition to my professional work, I have a strong interest in Generative AI, particularly in Large Language Models (LLMs) and Vision Language Models (VLMs). I actively engage in studying these areas and contribute to open-source projects. I am enthusiastic about integrating LLMs and Vision Models to advance multi-modal solutions in future projects.

I put new AI tools to work quickly: open-source models that have just been released - LLMs, ASR, TTS - usually become a usable offline product within weeks. DikteYar, ParSiGo and DocQAI all came out of that loop, built mostly with Claude Code, Cursor and Zcode.

Education

Master of Electrical Engineering

Branch: Telecommunications Systems

University: Malek Ashtar University of Technology

Tehran, Iran

2017 - 2021

GPA: 16.97

Bachelor of Electrical Engineering

University: Bu-Ali Sina University

Iran

2012 - 2016

GPA: 16.55

Diploma in Mathematics and Physics

Institute/School: Ayatollah Madani High School

Hamadan, Iran

2008 - 2012

GPA: 19.64

Work Experience

Freelance Machine Learning Engineer

Independent

Remote

May 2024 - Present

Founder

PelakGuard · pelakgard.ir

Remote

February 2026 - Present

Artificial Intelligence Engineer

Nazru Company

Tehran, Iran

December 2023 - April 2024

Research Assistant

Malek Ashtar University of Technology

Tehran, Iran

September 2022 - February 2024

Teaching Assistant in Deep Learning Course

Malek Ashtar University of Technology,

Tehran, Iran

January 2020 - September 2020

Teaching Assistant in Machine Learning Course

Malek Ashtar University of Technology,

Tehran, Iran

September 2019 - January 2020

Skills

- python
- pytorch
- tensorflow
- pandas, numpy, matplotlib
- git
- matlab
- docker
- linux / ubuntu
- google colab
- machine learning
- llms
- object detection
- instance segmentation
- onnx / onnx runtime
- model optimization
- speech recognition (asr)
- text-to-speech (tts)
- hugging face
- domain adaptation
- prompt engineering
- rest apis
- langchain
- react / typescript
- computer vision
- rag

ai-assisted development: claude code, cursor, zcode - tools I use daily to ship these projects

Language

English

Reading | Writing | Speaking | Listening

Certificates

AI for Medical Diagnosis

Institute: www.coursera.org

June 2020

AI for Medical Prognosis

Institute: www.coursera.org

July 2020

Convolutional Neural Networks in TensorFlow

Institute: www.coursera.org

April 2020

Introduction to TensorFlow for Artificial Intelligence, Machine Learning, and Deep Learning

Institute: www.coursera.org

February 2020

Research

FPL: False Positive Loss

March 2023

Link: https://www.preprints.org/manuscript/202309.0280/v1

Active Identity Function as Activation Function

October 2022

Link: https://www.preprints.org/manuscript/202305.1018/v1

Projects

DikteYar: Offline Persian Speech Dictation for Windows

Sep - Oct 2026

A Windows dictation tool that turns Persian speech into text in any program with one global hotkey, fully offline on the user's machine, with the live transcription beside the cursor.
Built on an offline speech-recognition model (Shenava-Koochik, 114M parameters, via sherpa-onnx) running in real time on CPU, with voice punctuation commands, spoken-number to digit conversion, and stability work that cut the final word error rate from 34.1% to 30% in real-speech tests.

GitHub: https://github.com/nimaone/persian-whisper-flow

ParSiGo: Offline Persian Text-to-Speech with Voice Cloning

Sep 2026

A Persian text-to-speech tool that turns any text into natural speech offline on CPU and clones a new voice from a few seconds of reference audio. The model was optimized and exported to ONNX Runtime to run without PyTorch, cutting dependencies from ~1.2 GB to ~200 MB with output quality identical to the original engine, behind a Persian RTL interface with phoneme editing, built-in and user-uploaded voices, and long-text support. Model package and demo published on Hugging Face, and the project has 180+ stars on GitHub.

GitHub: https://github.com/nimaone/persian_tts

PelakGuard: Real-Time License Plate Detection, Masking & Reading

Sep 2025 - Oct 2026

A live product that protects car owners' privacy when they publish vehicle ads: upload a photo, the plate is detected and masked (blur, redaction box, or custom logo), and the protected image is ready in seconds.
Detection and recognition run on my own lightweight models, trained on a Persian plate dataset and optimized for real-time use, with four engines for standard, angled/rotated, OCR (Persian/English/Arabic) and hybrid cases, an interactive box editor, and a full Persian/English interface.

Live product: https://www.pelakgard.ir/

DocQAI: Local Question-Answering over Persian Pharmaceutical References

Jul - Nov 2025

A question-answering assistant for Persian pharmacy reference content: ask about a drug in natural Persian, for indications, dosage, brands, side effects, and get answers grounded in the source text with citations, running entirely locally so sensitive material never leaves the machine. Includes the full RAG pipeline (ingestion, chunking, Qwen3 embeddings via Ollama, semantic retrieval), a bilingual Persian/English interface, chat sessions, and a documents dashboard.

GitHub: https://github.com/nimaone1/DocQAI

Instance Segmentation of cerebral hemorrhage image with deep learning methods

Jul 2024

object removal and shadow removal in satellite image using generative models

For: Nazru Company

Dec 2023

Emotion Recognition using a Combination of Convolutional Networks and Transformers

For: personal interest

September 2023

Academic research

Missing Tooth Area Detection for Implant Planning in Radiographic Panoramic Images using Deep Learning

Aug 2023

Dental Caries Detection using Deep Neural Networks

June 2023

Domain Adaptation from Simulation to Real Space for Object Detection in Aerial Images

For: Malek Ashtar University of Technology

Oct 2022

The project was carried out as a research associate at the university

Master's Thesis: Improving the Accuracy of Man-Made Object Detection in Aerial and Satellite Images using Deep Learning Methods

For: Malek Ashtar University of Technology

February 2022

Vehicle License Plate Detection on Intercity Roads

July 2020

AI-Based Reading System for Electricity and Gas Meters

June 2020

Face Recognition System

For: Malek Ashtar University of Technology

December 2019

Bachelor's Project: Design and Construction of a Temperature Control System using AVR Microcontroller

October 2015

Honors

Rank 811 in Master's Entrance Exam

September 2017

Rank 2600 in Bachelor's Entrance Exam

September 2012

شبکه اجتماعی

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References

Ali Akbar Kiaei

Post-doctorate in Artificial Intelligence for Medicine, Sharif University of Technology

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