

MAHDI TAGHI

AI Engineer & Full-Stack Developer

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PUBLICATIONS

Kianfar, N., Taghi, M., Dasdar, S., Mollalo, A., Kiani, B. (2026), Geospatial and machine learning analyses of cardiovascular disease mortality across the continental United States: Identifying associated variables using Shapley values. *BMC Public Health*

WORK EXPERIENCE

ARI Consulting Group

May 2025 - Present

AI Engineer & Full-Stack Developer

In this role, I built and operated secure AI-driven data products and automation pipelines, working across the full lifecycle of data ingestion, document processing, and platform integrations, while also supporting production deployment and maintenance on private infrastructure with a focus on reliability, scalability, and data privacy.

Freelance

Sep 2023 - Present

Data Scientist & Python Developer

In this role, I delivered 30+ AI/ML projects and contributed to academic research with international collaborators, applying clustering and dimensionality reduction (K-Means, DBSCAN, PCA) and building predictive models (KNN, SVM, Random Forest, MLP). I also developed end-to-end ML pipelines—from data cleaning and feature engineering to validation—and worked on applied solutions such as COVID-19 diagnosis and image-based object detection.

Salam and Mouood high schools

Sep 2023 - Jan 2025

Python programming instructor

I taught high school students Python programming and algorithmic thinking through interactive, hands-on sessions focused on core fundamentals, and mentored them in building small Python projects such as a calculator, weather app, and BMI calculator.

EDUCATION

B.Sc.Computer Engineering

Jan 2023 - Present

Islamic Azad University

SKILLS & LANGUAGES

- Python
- TypeScript
- Javascript
- SQL
- React
- Machine Learning
- Deep Learning
- Natural language processing
- Computer Vision
- LLM
- MLOps
- Vector DBs
- Django
- FastAPI
- Next.js

CERTIFICATIONS

Deep Learning

Tehran Institute of Technology
Issued Oct 2024

Computer vision & image processing

Tehran Institute of Technology
Issued Jan 2024

Data analysis and Machine Learning

Tehran Institute of Technology
Issued Sep 2023

Programming with Python

Tehran Institute of Technology
Issued Jun 2023

Certificate of 3rd place in RoboCup Asia-Pacific

RoboCup Federation
Issued Dec 2018

PROJECTS

PyFit

A smart AI-powered workout tracking web app (PWA) that allows users to create training plans manually, import plans from images using AI-based OCR, or receive personalized programs generated by AI based on their goals. It also provides real-time workout logging and progress analytics to help users track long-term strength development.

NewsFlow

AI-driven news automation system that aggregates economic news from multiple RSS sources, extracts full articles and images, rewrites content with AI models, and automatically publishes cleaned drafts to WordPress via a custom plugin. Includes real-time feed monitoring, duplicate detection, and scheduled posting.

PyPass - Password Manager

A secure password manager with glassmorphism UI, featuring password generation, secure storage, and Progressive Web App capabilities for seamless cross-device access.

PyTunnel Bot

A dual-bot Telegram system for managing digital plan sales, featuring separate admin and user interfaces. Includes order management, wallet functionality, plan configuration, and step-by-step setup tutorials.

Crisis Chatbot - AI Crisis Management Assistant

A desktop chatbot application for crisis management guidance using local LLM (Ollama with Llama 3.2) to provide expert advice on crisis management, risk assessment, disaster response, and emergency planning.

LiveDetect - Real-Time Object Detection

Real-time object detection application using OpenCV and TensorFlow SSD MobileNet model. Captures video from webcam and displays bounding boxes with class labels and confidence scores.

Server Pulse Telegram Bot

Telegram Bot for Monitoring Server Logs via SSH - A Python-based bot that enables remote server monitoring and log access through Telegram commands.