

Mahdi Taghi

Machine Learning Engineer , Data Scientist

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Education

B.Sc. Computer Engineering — Islamic Azad University

Jan. 2023 - Present

Publications

Kianfar, N., Taghi, M., Mollalo, A., Kiani, B. (2025), Geospatial and Machine Learning-Based Analysis of Cardiovascular Disease Mortality in USA Counties: Identifying Influential Risk Factors Using Shapley Values (Original Research - In preparation).

Experience

ARI Consulting Group AI Engineer & Full-Stack Developer

May. 2025 - Present

- LLM-powered assistant focusing on trade data.
- Semantic search on 4,300+ reports using embeddings.
- Proxy-backed AI platform enabling unrestricted GPT access.
- Rapid UI for instant trade intelligence insights.
- Automated news pipeline with GPT rewriting and WordPress plugin publishing.

Freelance Data Scientist & Python Developer

Sep. 2023 - Present

- AI & ML Engineer with 30+ successful projects
- Applied advanced AI in academic research, collaborating with international scientists.
- Applied K-Means, DBSCAN, and PCA for clustering and dimensional reduction on real datasets.
- Built and evaluated classification models (KNN, SVM, Random Forest, MLP) for prediction tasks.
- Developed AI solutions for COVID-19 infection diagnosis and object detection in images.
- Designed end-to-end pipelines including data cleaning, feature engineering, and model validating.

Salam and Mouood high schools Python programming instructor

Sep. 2023 - Jan. 2025

- Instructed high school students in Python programming and algorithm design.
- Delivered interactive, hands-on coding sessions to teach programming fundamentals.
- Guided students in developing projects (e.g., calculator, weather app, and BMI calculator) using Python.

Skills & Tools

Languages

HTML CSS/SCSS Python JavaScript
PHP SQL R Bash

AI & Machine Learning

ML & DL NLP Computer Vision PyTorch TensorFlow
SHAP scikit-learn

Data Engineering & Infrastructure

Docker Web Scraping Git ETL Pipelines
PostgreSQL Server Nginx Linux

Web & Product Development

React.js Django Next.js WordPress Tailwind CSS
Bootstrap FastAPI

Certifications

Programming with Python

Mojtama Fani Tehran

Apr. 2023

Data Analysis and Machine Learning

Mojtama Fani Tehran

Aug. 2023

Computer Vision and Image Processing

Mojtama Fani Tehran

Jan. 2024

Deep Learning

Mojtama Fani Tehran

May. 2024

Participation in Iran FIRA RoboWorldCup Open

FIRA

Mar. 2019

Honors and Awards

Ranked 3rd place in RoboCup Asia-Pacific

Kish. IR

Dec. 2018