

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
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