

Mohammadhossein Jafari

AI Engineer

[Personal Website](#) hosein.jafari@iriui.ac.ir [Linkedin Profile](#) [Github](#)

Education

Bachelor of Computer Engineering

09/2020 – 07/2024

Imam Reza International University (IRIU) [IRIU](#)

GPA: 18.38 out of 20 - Ranked 2nd of 110 students

Final Project : Machine Learning-Based Analysis of Student Counseling and Behavioral Patterns - 20 / 20

Supervisor: Prof. Kaveh Akbarzadeh

Selected Courses: Algorithm and Data Structure (20/20) | Artificial Intelligence (20/20) | Signal and Systems (20/20) | Algorithms Design (18.5/20) | Computer Architecture (19/20)

RESEARCH EXPERIENCE & PUBLICATIONS

Enhancing the Arithmetic Optimization Algorithm Using Fuzzy Parameter Adaptation and Novel Evolutionary Operators

06/2025

Contemporary Mathematics (Q1 Journal) | Under Review

Supervisor : Prof. Adel Ghazi Khani

Role: Implemented algorithm and conducted experimental analysis | 4th Author

Keywords: Optimization Problems, Arithmetic Algorithm, Chaos Theory, Fuzzy Systems

Efficient IoT Network Congestion Management using Genetic Algorithm-based RTO Calculation on Server Nodes

03/2024

International Conference On Information Technology, Computer & Telecommunication | Published 2024

Authors: Najafi Fadafan, M., Jafari, M., Nazari, M., Mahroughi, M.

Role: Algorithm design and implementation | 2nd author

Keywords: congestion control, Genetic Algorithm, Internet of Things(IOT).

TEACHING ASSISTANT EXPERIENCE

Logic Circuits

Instructor: Dr.Kaveh Akbarzadeh Sharbaf | IRIU | Fall 2023

Guided students in digital logic design, Boolean algebra, and circuit analysis. Evaluated assignments and assessed performance.

Algorithm Design

Instructor: Dr.Mohammad Mahdi Estesnaei | IRIU | Fall 2023

Guided students in designing algorithms, analyzing complexity, and implementing in Python and C++.

Advanced Programming

Instructor: Dr.Hamid Chitsaz | IRIU | Spring 2023

Assisted students in comprehending advanced programming concepts, debugging code, and completing assignments effectively.

Algorithms and Data Structure

Instructor: Dr.Marzieh Arhami | IRIU | Fall 2022

Supported students in understanding data structures and problem-solving techniques for Algorithms Design.

Backend Development

International Informatics Institute (i3center) | Spring 2022

Taught Django, REST APIs, and system design through hands-on projects. Mentored students in backend development, Git workflows, and Docker-based deployment.

HONORS & AWARDS

2nd Rank, Graduating Class | IRIU | July 21, 2024 [↗](#)

Honorable Mention | ICPC Asia Tehran Regional Contest | May 30-31, 2024 [↗](#)

Honorable Mention | ICPC Asia Tehran Regional Contest | May 18-19, 2023 [↗](#)

2nd place | IRUCTF Capture the Flag competition | IRIU | February 14, 2024

2nd Place | IRUPC Programming Contest | IRIU | March 4, 2022

PROFESSIONAL EXPERIENCE

AI Engineer

08/2025 – Present

Kalasanati [↗](#)

Developing AI chatbot applications serving 10K+ daily users, analyzing customer behavioral data for Iran's largest online engineering marketplace.

Machine Learning Engineer

06/2024 – 07/2025

Smart Robox [↗](#)

Developed and optimized ML & reinforcement learning models for automated trading strategies with 70% win rate; designed ML-based market prediction algorithms.

Junior Machine Learning Engineer

09/2023 – 04/2024

Greendevlopers | Iran Mafia Game [↗](#)

Built and evaluated ML/CNN classifiers achieving 95% accuracy for Persian text moderation; processed 100K+ text samples, applying NLP techniques like tokenization and TF-IDF.

Full-Stack Developer

05/2021 – 04/2023

Hamyar Moshavereh [↗](#)

Led backend design of a student consulting platform, developed secure REST APIs with Django/DRF, guided a small team, and optimized performance with caching.

TECHNICAL SKILLS

Programming Languages — Python, C++, C, R, Javascript, PHP

Artificial Intelligence — Pandas, Numpy, scikit-learn, keras, OpenCV, Matplotlib, NLTK, Seaborn, TensorFlow, Langchain, Ollama

Databases — Relational: SQLite, PostgreSQL, Mysql | No-SQL: MongoDB, Dynamodb | Redis

Frameworks — Web Frameworks: Django, DRF, Flask, Bootstrap | DevOps: Docker, Kubernetes, Jenkins, Git | Tools: Selenium, N8N

Research Tools — MATLAB, R Studio, Jupyter Notebooks, Google Colab, Contiki Cooja, ns-3

LANGUAGES

English



Proficient (TOEFL iBT | scheduled for January 10, 2026 [↗](#))

Persian



Native

REFERENCES

Prof. Adel Ghazikhani, Assistant Professor, IRIU

adel.ghazi@gmail.com

Prof. Kaveh Akbarzadeh, Assistant Professor, IRIU

akbarzadeh@imamreza.ac.ir

Prof. Mohammad Mahdi Estesnaei, Assistant Professor, IRIU

mahdi_55@yahoo.com