

## RESEARCH INTERESTS

Trustworthy AI, Multimodal Generative Models, Deep Reinforcement Learning, Deep Learning-Guided Program Synthesis

## EDUCATION

### Bu-Ali Sina University

MS in Artificial Intelligence

• CGPA: 19.28/20.00 | 4.00/4.00, Ranking: 1<sup>st</sup>

Hamedan, Iran

Sep 2023 - Present

### University of Kurdistan

BS in Computer Engineering

• CGPA: 17.64/20.00 | 3.65/4.00, last two years: 19.24/20.00 | 4.00/4.00

Sanandaj, Iran

Sep 2019 - Jul 2023

## EXPERIENCE

### Robot Intelligence & Vision Lab

Graduate Student Researcher - Advisor: *Prof. Hassan Khotanlou*

Hamedan, Iran

Mar 2025 - Present

- Working on Debiasing Image Datasets using Generative Models.

### Matina AI

AI Engineer

Tehran, Iran

Apr 2024 - Jan 2025

- Investigating LLM post-training approaches.
- Creating LLM post-training datasets.

### Quera

Course Instructor

Tehran, Iran · Remote

Mar 2021 - Feb 2022

- Create and optimize programming courses tutorials.
- Design programming problems and develop unit tests for them to judge the submitted answers.
- Help students to debug their codes and solve their issues.

## PUBLICATIONS

- S. Bourbour, M. SeifKashani, J. Seraj, F. Taherinezhad, **A. Nafisi**, F. Nadi, I. Barati, H. Hasani, M. Amiri, M. Masoudi, "Matina: A Culturally-Aligned Persian Language Model Using Multiple LoRA Experts," *ACL*, 2025.
- F. Daneshfar, S. Soleymanbaigi, **A. Nafisi**, P. Yamini, "Elastic deep autoencoder for text embedding clustering by an improved graph regularization," *Expert Systems with Applications*, 2024.

## HONORS & AWARDS

- 5<sup>th</sup> Place** in the first stage of the UT AI Hackathon Apr 2025
- 1<sup>st</sup> Place** in Rayan International AI Contest, *Sharif University of Technology* Dec 2024
- 2<sup>nd</sup> Place** in the final contest of the Quera Large Language Model Hackathon Mar 2024
- 1<sup>st</sup> Place** in the first stage of the Irancell Labs Artificial Intelligence Hackathon Aug 2023
- 3<sup>rd</sup> Place** in the 28th Computer Engineering regional Olympiad (Region 5) Jun 2023
- 1<sup>st</sup> Place** in the 27th Computer Engineering regional Olympiad (Region 5) Jul 2022
- Qualifying and participating** in the ICPC 2020 regional contest, *Sharif University of Technology* Dec 2020

## TEACHING EXPERIENCE

### Teaching Assistant at Bu-Ali Sina University

2023 - Present

- Digital Image Processing, Deep Learning, Machine Learning, Artificial Intelligence, Web Search and Information Retrieval*

### Teaching Assistant at University of Kurdistan

2022 - 2023

- Natural Language Processing, Artificial Intelligence, Design and Analysis of Algorithms, Advanced Programming, Computer Networks*

## SKILLS & TECHNICAL TOOLS

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**Programming:** Python, C/C++

**ML/CV Tools & Libraries:** PyTorch, Keras, HuggingFace libraries, OpenCV, Scikit-Learn, Pandas, NumPy, Matplotlib

**Languages:** Persian (native), Arabic (native), English (proficient)

**Others:** Git,  $\LaTeX$ , Linux

## SELECTED PROJECTS

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|---|------------------------|
| • Compositional Image Retrieval   | <a href="#">GitHub</a> |
| • Backdoored Model Detection  | <a href="#">GitHub</a> |
| • Hierarchical Group Robustness   | <a href="#">GitHub</a> |
| • Noisy Birds Classification  | <a href="#">GitHub</a> |
| • Teeth Segmentation  | <a href="#">GitHub</a> |
| • Solving the Cones Problem with a Multi-Objective Evolutionary Algorithm | <a href="#">GitHub</a> |
| • Solving TSP with an Evolutionary Algorithm                              | <a href="#">GitHub</a> |

## CERTIFICATIONS

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|--|-------------------------------|
| • Introduction to LangGraph, <i>LangChain Academy</i>                                      | <a href="#">Certification</a> |
| • TensorFlow Developer Specialization, <i>DeepLearning.AI</i>                              | <a href="#">Certification</a> |
| • Deep Learning Specialization, <i>DeepLearning.AI</i>                                     | <a href="#">Certification</a> |
| • Mathematics for Machine Learning and Data Science Specialization, <i>DeepLearning.AI</i> | <a href="#">Certification</a> |
| • Reinforcement Learning Specialization, <i>University of Alberta</i>                      | <a href="#">Certification</a> |
| • Machine Learning Specialization, <i>DeepLearning.AI</i>                                  | <a href="#">Certification</a> |

## REFERENCES

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**Prof. Hassan Khotanlou**

Iran

*Professor, Bu-Ali Sina University*

• Email: [khotanlou@basu.ac.ir](mailto:khotanlou@basu.ac.ir)

**Prof. Muharram Mansoorizadeh**

Iran

*Associate Professor, Bu-Ali Sina University*

• Email: [mansoorm@basu.ac.ir](mailto:mansoorm@basu.ac.ir)