

## RESEARCH INTERESTS

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

## EDUCATION

<b>Bu-Ali Sina University</b> <i>MS in Artificial Intelligence</i> • CGPA: 19.28/20.00   4.00/4.00, Ranking: 1 <sup>st</sup>	Hamedan, Iran Sep 2023 - Present
<b>University of Kurdistan</b> <i>BS in Computer Engineering</i> • 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

<b>Robot Intelligence &amp; Vision Lab</b> <i>Graduate Student Researcher - Advisor: Prof. Hassan Khotanlou</i> • Working on Debiasing Image Datasets using Generative Models.	Hamedan, Iran Mar 2025 - Present
<b>Matina AI</b> <i>AI Engineer</i> • Working on LLMs and their applications.	Tehran, Iran Apr 2024 - Jan 2025
<b>Quera</b> <i>Course Instructor</i> • 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.	Tehran, Iran · Remote Mar 2021 - Feb 2022

## PUBLICATIONS

1. 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," *Under Review*, 2025.
2. 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

• <b>1<sup>st</sup> Place</b> in Rayan International AI Contest, <i>Sharif University of Technology</i>	May 2025
• <b>One of the top winners</b> of the UT AI Hackathon	Apr 2025
• <b>One of the top winners</b> of the Tech Olympics 2024: Text Processing Track	Nov 2024
• <b>2<sup>nd</sup> Place</b> in the final contest of the Quera Large Language Model Hackathon	Mar 2024
• <b>One of the top winners</b> of the Irancell Labs Artificial Intelligence Hackathon	Aug 2023
• <b>Rank 3</b> in the 28th Computer Engineering regional olympiad (Region 5)	Jun 2023
• <b>Rank 1</b> in the 27th Computer Engineering regional olympiad (Region 5)	Jul 2022
• <b>Qualifying and participating</b> in the ICPC 2020 regional contest, <i>Sharif University of Technology</i>	Dec 2020

## TEACHING EXPERIENCE

<b>Teaching Assistant at Bu-Ali Sina University</b> • <i>Digital Image Processing, Deep Learning, Machine Learning, Artificial Intelligence, Web Search and Information Retrieval</i>	2023 - Present
<b>Teaching Assistant at University of Kurdistan</b> • <i>Natural Language Processing, Artificial Intelligence, Design and Analysis of Algorithms, Advanced Programming, Computer Networks</i>	2022 - 2023

## SKILLS & TECHNICAL TOOLS

---

**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,  $\text{\LaTeX}$ , Linux

## SELECTED PROJECTS

---

- Hierarchical Group Robustness [GitHub](#)
- Noisy Birds Classification [GitHub](#)
- Teeth Segmentation [GitHub](#)
- Solving the Cones Problem with a Multi-Objective Evolutionary Algorithm [GitHub](#)
- Solving TSP with an Evolutionary Algorithm [GitHub](#)

## CERTIFICATIONS

---

- Introduction to LangGraph, *LangChain Academy* Jan 2025
- TensorFlow Developer Specialization, *DeepLearning.AI* Nov 2023
- Deep Learning Specialization, *DeepLearning.AI* Sep 2023
- Mathematics for Machine Learning and Data Science Specialization, *DeepLearning.AI* Jul 2023
- Reinforcement Learning Specialization, *University of Alberta* May 2023
- Machine Learning Specialization, *DeepLearning.AI* Sep 2022

## REFERENCES

---

**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)