Ali Nafisi

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⌂ Homepage | 🎓 Google Scholar | GitHub | LinkedIn

RESEARCH INTERESTS

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

EDUCATION

Bu-Ali Sina University   Hamedan, Iran
MS in Artificial Intelligence   Sep 2023 - Present
- CGPA: 19.28/20.00 | 4.00/4.00, Ranking: 1st

University of Kurdistan   Sanandaj, Iran
BS in Computer Engineering   Sep 2019 - Jul 2023
- CGPA: 17.64/20.00 | 3.65/4.00, last two years: 19.24/20.00 | 4.00/4.00

EXPERIENCE

Robot Intelligence & Vision Lab   Hamedan, Iran
Graduate Student Researcher - Advisor: Prof. Hassan Khotanlou   Mar 2025 - Present

- Working on Debiasing Image Datasets using Generative Models.

Matina AI   Tehran, Iran
AI Engineer   Apr 2024 - Jan 2025

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

Quera   Tehran, Iran · Remote
Course Instructor   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

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," *ACL*, 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

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

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

- Compositional Image Retrieval   GitHub
- Backdoored Model Detection   GitHub
- Hierarchical Group Robustness   GitHub
- Noisy Birds Classification   GitHub
- Teeth Segmentation   GitHub
- Denoising Framework   GitHub

CERTIFICATIONS

- Introduction to LangGraph, *LangChain Academy*   Certification
- TensorFlow Developer Specialization, *DeepLearning.AI*   Certification
- Deep Learning Specialization, *DeepLearning.AI*   Certification
- Mathematics for Machine Learning and Data Science Specialization, *DeepLearning.AI*   Certification
- Reinforcement Learning Specialization, *University of Alberta*   Certification
- Machine Learning Specialization, *DeepLearning.AI*   Certification

REFERENCES

Prof. Hassan Khotanlou   Iran
Professor, Bu-Ali Sina University
- Email: khotanlou@basu.ac.ir

Prof. Muharram Mansoorizadeh   Iran
Associate Professor, Bu-Ali Sina University
- Email: mansoorm@basu.ac.ir