Ali Nafisi

► Email: alisafinal2001@gmail.com

↑ Homepage | Google Scholar | GitHub | in LinkedIn

RESEARCH INTERESTS

Deep Learning, Multimodal Generation, Trustworthy AI, Deep Learning-Guided Program Synthesis, Reinforcement Learning

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

• Thesis: Mitigating Spurious Correlations in Image Datasets via Diffusion-Based Counterfactual Data Augmentation

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 Research Assistant - Supervisor: Prof. Hassan Khotanlou

Mar 2025 - Present

Exploring the use of diffusion models for counterfactual augmentation to mitigate spurious correlations in image datasets.

Matina AITehran, IranAI EngineerApr 2024 - Jan 2025

• Investigating LLM post-training approaches.

· Creating LLM post-training datasets.

QueraTehran, Iran · RemoteCourse InstructorMar 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. SB. Hosseinbeigi, MA. 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 Findings*, 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

| • 3 rd Place in the LLM Agents Hackathon | May 2025 |
|---|----------|
| • 1 st Place in the Rayan International AI Contest | Dec 2024 |
| • 2 nd Place in the Quera Large Language Model Hackathon | Mar 2024 |
| • 3 rd Place in the 28th Computer Engineering regional Olympiad (Region 5) | Jun 2023 |
| • 1 st Place in the 27th Computer Engineering regional Olympiad (Region 5) | Jul 2022 |
| • Qualifying and participating in the ICPC 2020 regional contest | 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

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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, L'IEX, Linux

SELECTED PROJECTS

| • Compositional Image Retrieval: A system that retrieves the best image using visual and text inputs | GitHub |
|--|--------|
| • Backdoored Model Detection: A system that classifies models as either backdoored or clean | GitHub |
| • Hierarchical Group Robustness: A robust image classifier that can handle hierarchical group structures | GitHub |
| • Denoising Framework: A system that denoises images according to their noise type | 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, <i>DeepLearning.AI</i> | 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

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