# Ali Nafisi

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↑ 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

Sep 2023 - Present

MS in Artificial Intelligence

• 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 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. 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

• 1 <sup>st</sup> Place in the Rayan International AI Contest	Oct 2025
• 3 <sup>rd</sup> Place in the LLM Agents Hackathon	May 2025
• 2 <sup>nd</sup> Place in the Quera Large Language Model Hackathon	Mar 2024
• 3 <sup>rd</sup> 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	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

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# Prof. Muharram Mansoorizadeh

Iran

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