

EDUCATION

Bu-Ali Sina University

Sep 2023 - Sep 2026

MS in Artificial Intelligence

- CGPA: 19.28/20.00, Ranking: 1st
- Thesis: *Mitigating Spurious Correlations in Image Datasets via Counterfactual Image Augmentation* [Code]

University of Kurdistan

Sep 2019 - Jul 2023

BS in Computer Engineering

- CGPA: 17.64/20.00

PUBLICATIONS

† = equal contribution

- **Mechanistic Interpretability of Large-Scale Counting in LLMs through a System-2 Strategy** ACL 2026
H. Hasani, M. Banayeeanzade, A. Nafisi, S. Mohammadian, F. Askari, M. Bagherian, A. Izadi, M. Soleymani Baghshah
- **No Trust Issues Here: A Technical Report on the Winning Solutions for the Rayan AI Contest** arXiv 2025
A. Nafisi, S. Asghari†, M. Arvenaghi†, H. Shakibania [Code]
- **Matina: A Culturally-Aligned Persian Language Model Using Multiple LoRA Experts** ACL 2025
S. Bourbour Hosseinbeigi, M. SeifKashani, J. Seraj, F. Taherinezhad, A. Nafisi, F. Nadi, I. Barati, H. Hasani, M. Amiri, M. Masoudi
- **Elastic deep autoencoder for text embedding clustering by an improved graph regularization** ESWA 2024
F. Daneshfar, S. Soleymanbaigi, A. Nafisi, P. Yamini

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](#)

EXPERIENCE

Robot Intelligence & Vision Lab

Mar 2026 - Sep 2026

Graduate Research Assistant

- Developed my master's thesis on mitigating spurious correlations in image datasets via counterfactual image augmentation, under the supervision of Prof. [Hassan Khotanlou](#).

Machine Learning Lab

Nov 2025 - Feb 2026

Research Assistant

- Research on mechanistic interpretability of LLMs, resulting in a publication at ACL 2026, under the supervision of Dr. [Mahdieh Soleymani Baghshah](#).

Matina

Apr 2024 - Jan 2025

AI Engineer

- Investigated and implemented culturally-aligned LLM post-training approaches by creating specialized datasets and leveraging Multiple LoRA Experts, resulting in the model Matina and a published paper at ACL 2025.

TEACHING EXPERIENCE

Teaching Assistant at Bu-Ali Sina University

2023 - 2025

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

Teaching Assistant at University of Kurdistan

2022 - 2023

- *Natural Language Processing, Artificial Intelligence*

HONORS & AWARDS

- **1st Place** in the Rayan International AI Contest Nov 2025
- **3rd Place** in the LLM Agents Hackathon May 2025
- **2nd Place** in the Quera Large Language Model Hackathon Mar 2024
- **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

SKILLS & TECHNICAL TOOLS

Programming: Python

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

Languages: English (proficient)

Others: Git, $\text{\LaTeX}$, Linux

CERTIFICATIONS

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| • Introduction to LangGraph, <i>LangChain Academy</i> | Certification |
| • Deep Learning Specialization, <i>DeepLearning.AI</i> | Certification |
| • Mathematics for Machine Learning and Data Science Specialization, <i>DeepLearning.AI</i> | Certification |
| • Reinforcement Learning Specialization, <i>University of Alberta</i> | Certification |
| • Machine Learning Specialization, <i>DeepLearning.AI</i> | Certification |

REFERENCES

Prof. Hassan Khotanlou

Professor, Bu-Ali Sina University

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Prof. Muharram Mansoorizadeh

Associate Professor, Bu-Ali Sina University

- Email: mansoorm@basu.ac.ir