



Farzan Rahmani

Computer Engineering Student

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📍 Tehran, Iran

🐙 GitHub in LinkedIn

EDUCATION

Sharif University of Technology , Tehran, Iran Master of Science in Computer Engineering Major: Artificial Intelligence and Robotics GPA: 4/4 (Grade: 20/20 in Iranian Scale) Supervisor: Prof. Dr. Mohammad Hossein Rohban Top University in Iran (QS World University Rankings)	2024 - Present
Iran University of Science and Technology , Tehran, Iran Bachelor of Science in Computer Engineering GPA: 4/4 (Grade: 19.66/20 in Iranian Scale) Thesis: <i>Illusory VQA: Benchmarking and Enhancing Multimodal Models on Visual Illusions</i> Supervisor: Prof. Dr. Sauleh Eetemadi Among the Top 4 Universities in Iran (QS World University Rankings)	2020 - 2024
Shahid Ahmadi Roshan High School , Tehran, Iran Diploma in Mathematics and Physics GPA: 4/4 (Grade: 19.98/20 in Iranian Scale)	2017 - 2020

HONORS & AWARDS

- Ranked 2nd and received Silver Medal in the 29th National Scientific Olympiad in Computer Engineering of Iran - 2024
- Ranked 1st (1 out of 101) among Bachelor of Science in Computer Engineering students (Class of 2020), Iran University of Science and Technology - July 2024
- Received honorary Master's admission from three universities including Sharif University of Technology, Amirkabir University of Technology (Tehran Polytechnic), and Iran University of Science and Technology - 2024
- Finalist in the 28th National Scientific Olympiad in Computer Engineering of Iran - 2023
- Ranked within the top 0.5% of the Iranian University Entrance Exam for Bachelor degree (Konkur) in Mathematics and Physics - 2020

RESEARCH INTERESTS

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| • Artificial Intelligence | • Deep Learning |
| • Machine Learning | • Computer Vision & Image Processing |
| • Natural Language Processing | • Large Language Models |

RESEARCH EXPERIENCE

Research Assistant Robust and Interpretable Machine Learning Laboratory, Sharif University of Technology Supervisor: Prof. Dr. Mohammad Hossein Rohban	Oct 2024 - Present
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- Conducted research on Machine Learning and Deep Learning.
- Participated in weekly journal clubs to review articles, present new materials in AI and ML, and engage in academic discussions.
- Gained Experience in solving research problems and developing Vision-Language Models.

Research Assistant

July 2023 - Oct 2024

Natural Language Processing Laboratory, Iran University of Science and Technology

Supervisor: Prof. Dr. Sauleh Eetemadi

- Conducted research on Visual Question Answering, focusing on deep learning, natural language processing, computer vision, visual illusions, and multimodal language models.
- Resulted in a paper accepted at the NeurIPS 2024 Workshop on Multimodal Algorithmic Reasoning titled "Illusory VQA: Benchmarking and Enhancing Multimodal Models on Visual Illusions".
- Developed strong teamwork skills through collaborative research projects.
- Participated in periodic meetings to review articles, present new materials in AI and NLP, and engage in academic discussions.
- Gained hands-on experience working with various Large Language Models (LLMs) and Multimodal Large Language Models (MLLMs).

WORK EXPERIENCE

- **Web Development Intern:** August 2021 - November 2021
 - **Kanoon Farhangi Amoozesh - Tehran:** Technologies: HTML5, ASP.NET, CSS, C#
- **Software Developer:** July 2022 - December 2022
 - **Advanced Big Data Analysis Laboratory, Iran University of Science and Technology - Tehran:** Technologies: Bootstrap, HTML5, JavaScript, Python, Django

TEACHING EXPERIENCE

- **Teaching Assistant** Oct 2024 - Feb 2025
 - Course: Fundamentals of Deep Learning (DL03041)
 - Instructor: Prof. Dr. Marzieh Davoodabadi Farahani
- **Teaching Assistant** Oct 2024 - Feb 2025
 - Course: Fundamentals of Computational Intelligence (CI03041)
 - Instructor: Prof. Dr. Nasser Mozayani
- **Head Teaching Assistant** Feb 2024 - Jul 2024
 - Course: Systems Analysis and Design (SAD02032)
 - Instructor: Prof. Dr. Mehrdad Ashtiani
- **Teaching Assistant** Feb 2024 - Jul 2024
 - Course: Discrete Mathematics (DM02032)
 - Instructor: Prof. Dr. Vesal Hakami
- **Teaching Assistant** Oct 2023 - Feb 2024
 - Course: Logical Circuits (LC02031)
 - Instructor: Prof. Dr. Amir Mahdi Hosseini Monazzah
- **Teaching Assistant** Oct 2023 - Feb 2024
 - Course: Operating Systems (OS02031)
 - Instructor: Prof. Dr. Vahid Azahari
- **Head Teaching Assistant** Sep 2023 - Feb 2024

- Course: Software Engineering (SE02031)
- Instructors: Prof. Dr. Behrouz Minaei-Bidgoli, Prof. Dr. Mehrdad Ashtiani
- **Teaching Assistant** Sep 2023 - Feb 2024
 - Course: Operating Systems (OS02031)
 - Instructor: Prof. Dr. Reza Entezari-Maleki
- **Teaching Assistant** Feb 2023 - Jul 2023
 - Course: Theory of Languages and Automata (TLA01022)
 - Instructor: Prof. Dr. Reza Entezari-Maleki
- **Head Teaching Assistant** Feb 2023 - Jul 2023
 - Course: Fundamentals of Database Design (DB01022)
 - Instructor: Prof. Dr. Hossein Rahmani
- **Teaching Assistant** Feb 2023 - Jul 2023
 - Course: Discrete Mathematics (DM01022)
 - Instructor: Prof. Dr. Marzieh Davoodabadi Farahani
- **Teaching Assistant** Sep 2022 - Feb 2023
 - Course: Data Structures
 - Instructor: Prof. Dr. Sauleh Eetemadi
- **Teaching Assistant** Feb 2022 - Jul 2022
 - Course: Advanced Computer Programming
 - Instructor: Prof. Dr. Sauleh Eetemadi
- **Teaching Assistant** Sep 2021 - Feb 2022
 - Course: Fundamentals of Computer Programming
 - Instructor: Prof. Dr. Sauleh Eetemadi

TECHNICAL SKILLS

- **Programming Languages:** Python, C, C++, C#, JavaScript
- **Machine Learning:** Supervised Learning (Linear Regression, Logistic Regression, Neural Networks, Decision Trees, Random Forests), Unsupervised Learning (Clustering, PCA, Anomaly detection), Recommender Systems, Reinforcement Learning
- **Deep Learning:** Convolutional Neural Networks, Recurrent Neural Networks, Transformers, LLMs
- **AI Packages:** PyTorch, TensorFlow, Keras, Hugging Face, Scikit-learn, Numpy, Pandas, Jupyter notebooks
- **DevOps Tools:** Docker, Git, GitHub Actions, CI/CD, Azure Pipelines, YAML
- **Web Development:** HTML5, CSS3, React, Django
- **Other Technologies:** Linux, Microsoft Office 365, .NET, L^AT_EX

CERTIFICATIONS

- **Machine Learning:** Coursera ([link](#))
- **Supervised Machine Learning: Regression and Classification:** Coursera ([link](#))
- **Advanced Learning Algorithms:** Coursera ([link](#))
- **Unsupervised Learning, Recommenders, Reinforcement Learning:** Coursera ([link](#))
- **Advanced Algorithms and Complexity:** Coursera ([link](#))
- **Algorithms on Strings:** Coursera ([link](#))
- **Algorithms on Graphs:** Coursera ([link](#))
- **Data Structures:** Coursera ([link](#))
- **Algorithmic Toolbox:** Coursera ([link](#))

PROJECTS

- **System Analysis and Design & Software Engineering** Fall 2022 - Summer 2023
 - **Technologies:** DevOps, GitHub Actions, YAML, Docker, React, CSS, HTML
 - **Role:** Front-end Developer
 - **Supervisor:** Dr. Mehrdad Ashtiani (System Analysis and Design), Dr. Behrooz Minaei Bidgoli (Software Engineering)
 - **Link:** GitHub Repository
- **Fundamentals of Computer Programming:** Supervisor: Prof. Dr. Sauleh Eetemadi, February 2020 (link)
- **Advanced Computer Programming:** Supervisor: Prof. Dr. Sauleh Eetemadi, June 2021 (link)
- **Music Creation with Computer Programming:** Supervisor: Prof. Dr. Sauleh Eetemadi, July 2021 (link)
- **Logic Circuits:** Supervisor: Prof. Dr. Amir Mahdi Hosseini Manzeh, December 2021 (link)
- **Fundamentals of Database Design:** Supervisor: Prof. Dr. Hossein Rahmani, July 2022 (link)
- **Theory of Languages and Automata:** Supervisor: Prof. Dr. Reza Entezari-Maleki, July 2022 (link)
- **Artificial Intelligence and Expert Systems:** Supervisor: Prof. Dr. Mohammadreza Mohammadi, February 2022 (link)
- **Operating Systems:** Supervisor: Prof. Dr. Reza Entezari-Maleki, February 2022 (link)
- **Computer Vision:** Supervisor: Prof. Dr. Mohammadreza Mohammadi, July 2023 (link)
- **Computer-Aided Design of Digital Systems:** Supervisor: Prof. Dr. Maryam Khodadadi, July 2023 (link)
- **Data Transmission:** Supervisor: Prof. Dr. Abolfazl Dianat, July 2023 (link)
- **Deep Learning:** Supervisor: Prof. Dr. Marzieh Davoudabadi, December 2023 (link)
- **Fundamentals of Compiler Design:** Supervisor: Prof. Dr. Saeed Parsa, December 2023 (link)
- **Natural Language Processing:** Supervisor: Prof. Dr. Marzieh Davoudabadi, July 2024 (link)
- **Implementation of text generation using Retrieval-augmented generation on organizational reports:** Supervisor: Prof. Dr. Marzieh Davoudabadi, July 2024 (link)
- **Security of Computer Systems:** Supervisor: Prof. Dr. Abolfazl Dianat, July 2024 (link)

SOFT SKILLS

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| • Humor | • Public Relations |
| • Problem Solving | • Self-confidence |
| • Creativity and Ideation | • Resilience |
| • Perseverance | |

LANGUAGES

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| • Persian: Native | • Arabic: Basic |
| • English: Fluent | • French: Willing to learn |

IMPORTANT GRADES

- **Natural Language Processing:** Grade: 20/20 in Iranian Scale (Prof. Dr. Marzieh Davoudabadi)
- **Machine Learning:** Grade: 20/20 in Iranian Scale (Prof. Dr. Ali Sharifi-Zarchi)
- **Deep Learning:** Grade: 20/20 in Iranian Scale (Prof. Dr. Marzieh Davoudabadi)
- **Computer Vision:** Grade: 20/20 in Iranian Scale (Prof. Dr. Mohammadreza Mohammadi)
- **Intelligent Analysis of Biomedical Images:** Grade: 20/20 in Iranian Scale (Prof. Dr. Mohammad Hossein Rohban)
- **Fundamentals of Computational Intelligence:** Grade: 20/20 in Iranian Scale (Prof. Dr. Nasser Mozayeni)
- **Artificial Intelligence and Expert Systems:** Grade: 20/20 in Iranian Scale (Prof. Dr. Mohammadreza Mohammadi)
- **Introduction to Bioinformatics:** Grade: 20/20 in Iranian Scale (Prof. Dr. Ali Sharifi-Zarchi)
- **Algorithm Analysis and Design:** Grade: 20/20 in Iranian Scale (Prof. Dr. Sauleh Eetemadi)
- **Data Structures:** Grade: 20/20 in Iranian Scale (Prof. Dr. Sauleh Eetemadi)
- **Theory of Languages and Automata:** Grade: 20/20 in Iranian Scale (Prof. Dr. Reza Entezari-Maleki)
- **Operating Systems:** Grade: 20/20 in Iranian Scale (Prof. Dr. Reza Entezari-Maleki)
- **Software Engineering:** Grade: 20/20 in Iranian Scale (Prof. Dr. Behrooz Minaei Bidgoli)
- **Systems Analysis and Design:** Grade: 20/20 in Iranian Scale (Prof. Dr. Mehrdad Ashtiani)
- **Fundamentals of Compiler Design Project:** Grade: 20/20 in Iranian Scale (Prof. Dr. Saeed Parsa)
- **Security of Computer Systems:** Grade: 20/20 in Iranian Scale (Prof. Dr. Abolfazl Dianat)
- **Computer Architecture:** Grade: 20/20 in Iranian Scale (Prof. Dr. Amir Mahdi Mnezzeh)
- **Fundamentals of Database Design:** Grade: 20/20 in Iranian Scale (Prof. Dr. Hossein Rahmani)
- **Engineering Mathematics:** Grade: 20/20 in Iranian Scale (Prof. Dr. Narges Taheri)
- **Graph Theory and Algorithms:** Grade: 20/20 in Iranian Scale (Prof. Dr. Farzaneh Ghayour Baghbani)
- **Computer-Aided Design of Digital Systems:** Grade: 20/20 in Iranian Scale (Prof. Dr. Maryam Khodadadi)
- **Data Transmission:** Grade: 20/20 in Iranian Scale (Prof. Dr. Abolfazl Dianat)
- **Advanced Computer Programming:** Grade: 20/20 in Iranian Scale (Prof. Dr. Sauleh Eetemadi)
- **Fundamentals of Computer Programming:** Grade: 20/20 in Iranian Scale (Prof. Dr. Sauleh Eetemadi)

EXTRACURRICULAR ACTIVITIES

- **Volunteer Member** 2022 - 2024
 - Computer Engineering Scientific Association
 - Computer Engineering Department, Iran University of Science and Technology, Tehran, Iran
- **Honorary Member** May 2024
 - Computer Engineering Scientific Association
 - The 12th Iran University of Science and Technology Festival of Harekat