

# Farzan Rahmani


Computer Engineering Student

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Tehran, Iran GitHub LinkedIn Google Scholar


## Education

**Sharif University of Technology**, Tehran, Iran 2024 - Present
Master of Science in Computer Engineering
Major: Artificial Intelligence and Robotics
GPA: 4/4 (Grade: 19.96/20 in Iranian Scale)
Supervisor: Prof. Dr. Mohammad Hossein Rohban
Top University in Iran (QS World University Rankings)

**Iran University of Science and Technology**, Tehran, Iran 2020 - 2024
Bachelor of Science in Computer Engineering
GPA: 4/4 (Grade: 19.66/20 in Iranian Scale)
Thesis: *Illusory VQA: Benchmarking and Enhancing Multimodal Models on Visual Illusions*
Supervisor: Prof. Dr. Sauleh Eetemadi
Among the Top 4 Universities in Iran (QS World University Rankings)

**Shahid Ahmadi Roshan High School**, Tehran, Iran 2017 - 2020
Diploma in Mathematics and Physics
GPA: 4/4 (Grade: 19.98/20 in Iranian Scale)

## Honors & Awards

- Received the Alborz Prize (known as Iranian Nobel Prize) in recognition of merit, distinguished efforts, and academic achievements as an outstanding student of the country, awarded on the occasion of the 63rd Year of the Alborz Prize - May 2025
- Ranked 2nd and received Silver Medal in the 29th National Scientific Olympiad in Computer Engineering of Iran - 2024
- Ranked 1st (1 out of 102) 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

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Natural Language Processing
- Computer Vision
- Large Language Models
- Adversarial Robustness
- LLM Explanation Faithfulness

## Research Experience

**Research Assistant** Oct 2024 - Present
Robust and Interpretable Machine Learning Laboratory, Sharif University of Technology
Supervisor: Prof. Dr. Mohammad Hossein Rohban

- Conducted research on ML and DL.
- Participated in weekly journal clubs to review papers, present new materials in AI and ML, and engage in academic discussions.
- Gained experience in solving adversarial robustness problems and accepted a paper at the ICML 2026 titled "SORA: Free Second-Order Attacks in Fast Adversarial Training".
- Currently, working on the reasoning and explanation faithfulness in LLMs.

**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 DL, NLP, CV, visual illusions, and multimodal language models.
- Resulted in a paper accepted at the CVPR 2025 Workshops 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 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: HTML5, JavaScript, Bootstrap, Python, Django
- **Data Sceintist:** July 2025 - now
  - **TAPSI - Tehran:** Technologies: Python, PySpark, PyTorch, SQL, sk-learn, CatBoost, Luigi, Apache Airflow, MLflow, Triton Inference Server

## Teaching Experience

- **Teaching Assistant** Sep 2026 - Feb 2027
  - Course: Deep Learning, Instructor: Prof. Dr. Mahdieh Soleymani Baghshah
- **Teaching Assistant** Sep 2026 - Feb 2027
  - Course: Machine Learning, Instructor: Prof. Dr. Mahdieh Soleymani Baghshah
- **Head Teaching Assistant** Aug 2025 - Feb 2026
  - Course: Intelligent Analysis of Biomedical Images, Instructor: Prof. Dr. Mohammad Hossein Rohban
- **Teaching Assistant** Sep 2025 - Feb 2026
  - Course: Artificial Intelligence, Instructor: Prof. Dr. Mahdieh Soleymani Baghshah
- **Teaching Assistant** Sep 2025 - Feb 2026
  - Course: Machine Learning, Instructor: Prof. Dr. Ali Sharifi-Zarchi
- **Teaching Assistant** Sep 2025 - Feb 2026

  - Course: Introduction to Bioinformatics, Instructors: Prof. Dr. Ali Sharifi-Zarchi & Prof. Dr. Somayyeh Koohi

- **Teaching Assistant** Oct 2024 - Feb 2025
  - Course: Fundamentals of Deep Learning, Instructor: Prof. Dr. Marzieh Davoodabadi Farahani
- **Teaching Assistant** Oct 2024 - Feb 2025
  - Course: Fundamentals of Computational Intelligence, Instructor: Prof. Dr. Nasser Mozayani
- **Head Teaching Assistant** Feb 2024 - Jul 2024
  - Course: Systems Analysis and Design, Instructor: Prof. Dr. Mehrdad Ashtiani
- **Teaching Assistant** Feb 2024 - Jul 2024
  - Course: Discrete Mathematics, Instructor: Prof. Dr. Vesal Hakami
- **Teaching Assistant** Oct 2023 - Feb 2024
  - Course: Logical Circuits, Instructor: Prof. Dr. Amir Mahdi Hosseini Monazzah
- **Teaching Assistant** Oct 2023 - Feb 2024
  - Course: Operating Systems, Instructor: Prof. Dr. Vahid Azahari
- **Head Teaching Assistant** Sep 2023 - Feb 2024
  - Course: Software Engineering, Instructors: Prof. Dr. Behrouz Minaei-Bidgoli, Prof. Dr. Mehrdad Ashtiani
- **Teaching Assistant** Sep 2023 - Feb 2024
  - Course: Operating Systems, Instructor: Prof. Dr. Reza Entezari-Maleki
- **Teaching Assistant** Feb 2023 - Jul 2023
  - Course: Theory of Languages and Automata, Instructor: Prof. Dr. Reza Entezari-Maleki
- **Head Teaching Assistant** Feb 2023 - Jul 2023
  - Course: Fundamentals of Database Design, Instructor: Prof. Dr. Hossein Rahmani
- **Teaching Assistant** Feb 2023 - Jul 2023
  - Course: Discrete Mathematics, 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 Notebook
- **DevOps Tools:** Docker, Git, GitHub Actions, CI/CD, Azure Pipelines, YAML
- **Web Development:** HTML5, CSS3, React, Django
- **Other Technologies:** Linux, Microsoft Office 365, .NET, LaTeX

## 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

- Humor
- Creativity and Ideation
- Problem Solving
- Perseverance

- Public Relations
- Self-confidence
- Resilience

## Languages

- **Persian:** Native
- **English:** Fluent
- **Arabic:** Basic
- **French:** Willing to learn

## Important Grades

- **Natural Language Processing:** Grade: 20/20 in Iranian Scale (Prof. Dr. Ehsaneddin Asgari)
- **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)
- **System-2 AI (Reasoning in AI and LLMs):** Grade: 20/20 in Iranian Scale (Prof. Dr. Mohammad Hossein Rohban, Prof. Dr. Mahdieh Soleymani Baghshah, Dr. Mahdi Samiei)
- **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)
- **Linear Algebra:** Grade: 20/20 in Iranian Scale (Prof. Dr. Hamid R. Rabiee, Dr. Maryam Ramezani)
- **Digital Signal Processing:** Grade: 20/20 in Iranian Scale (Prof. Dr. Mohammad Taghi Manzuri Shalmani)
- **Introduction to Bioinformatics:** Grade: 20/20 in Iranian Scale (Prof. Dr. Ali Sharifi-Zarchi)
- **Safety and Privacy in Machine Learning:** Grade: 19.7/20 in Iranian Scale (Prof. Dr. Amir Mahdi Sadeghzadeh)
- **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:** 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** 2024 - 2026
  - Students' Scientific Chapter
  - Computer Engineering Department, Sharif University of Technology, Tehran, Iran
- **Executive Team Member** May 2025
  - 1st LLM Agents Hackathon
  - Sharif Artificial Intelligence Chapter, Sharif University of Technology, Tehran, Iran
- **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
- **Chief Staff**
  - Rayan International AI Contest