Farzan Rahmani

Computer Engineering Student

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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: 4.0/4.0 (Iranian Scale: 19.96/20.0, Range: 0-20) 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: 4.0/4.0 (Iranian Scale: 19.66/20.0, Range: 0-20) Supervisor: Prof. Dr. Sauleh Eetemadi
Thesis: *Illusory VQA: Benchmarking and Enhancing Multimodal Models on Visual Illusions*
Among the Top 4 Universities in Iran (QS World University Rankings)

Honors & Awards

- Received the **Alborz Prize** (Iranian Nobel Prize) for outstanding academic achievements (May 2025)
- **Ranked 2nd** and received Silver Medal in the 29th National Scientific Olympiad in Computer Engineering (2024)
- **Ranked 1st** (1/102) among B.Sc. Computer Engineering students, Iran University of Science and Technology (2024)
- Received honorary Master's admission from Sharif University of Technology, Amirkabir University of Technology, and Iran University of Science and Technology (2024)
- Finalist in the 28th National Scientific Olympiad in Computer Engineering (2023)
- Ranked within top 0.5% of Iranian University Entrance Exam (Konkur) in Mathematics and Physics (2020)

Research Interests

Machine Learning · Deep Learning · Natural Language Processing · Computer Vision · Large Language Models · LLM faithfulness · Adversarial Robustness

Research Experience

Research Assistant Oct 2024 - Present
Robust and Interpretable Machine Learning Laboratory, Sharif University of Technology
Supervisor: Prof. Dr. Mohammad Hossein Rohban
- Conducting research on adversarial robustness and reasoning & explanation faithfulness in LLMs
- Published paper accepted at **ICML 2026**: "SORA: Free Second-Order Attacks in Fast Adversarial Training"
- Participated in weekly journal clubs to review and present recent AI/ML research

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 visual illusions and multimodal language models
- Published paper accepted at **CVPR 2025 Workshops**: "Illusory VQA: Benchmarking and Enhancing Multimodal Models on Visual Illusions"
- Gained hands-on experience with various LLMs and Multimodal Large Language Models (MLLMs)

Work Experience

Data Scientist July 2025 - Present
TAPSI, Tehran

Technologies: Python, PySpark, PyTorch, SQL, sk-learn, CatBoost, Luigi, Apache Airflow, MLflow, Triton Inference Server

Software Developer July 2022 - December 2022

Advanced Big Data Analysis Laboratory, Iran University of Science and Technology

Technologies: HTML5, JavaScript, Bootstrap, Python, Django

Teaching Experience

Head Teaching Assistant & Teaching Assistant at Sharif University of Technology and Iran University of Science and Technology (2021-Present). Courses include:

- **AI/ML Courses:** Intelligent Analysis of Biomedical Images (Head TA), Artificial Intelligence, Machine Learning, Fundamentals of Deep Learning, Fundamentals of Computational Intelligence, Introduction to Bioinformatics
- **Software Engineering:** Systems Analysis and Design (Head TA), Software Engineering (Head TA)
- **Core CS:** Operating Systems, Data Structures, Discrete Mathematics, Theory of Languages and Automata, Logical Circuits, Fundamentals of Database Design (Head TA), Advanced Computer Programming, Fundamentals of Computer Programming

Technical Skills

- **Programming Languages:** Python, C, C++, C#, JavaScript
- **Machine Learning:** Supervised Learning, Unsupervised Learning, Reinforcement Learning
- **Deep Learning:** CNNs, RNNs, Transformers, Large Language Models
- **AI Packages:** PyTorch, TensorFlow, Hugging Face, Scikit-learn, NumPy, Pandas, Jupyter Notebook
- **DevOps & Web:** Docker, Git, GitHub Actions, CI/CD, Azure Pipelines, HTML5, CSS3, React, Django
- **Other Technologies:** Linux, LaTeX, Microsoft Office 365, .NET

Selected Projects

- **NLP & RAG:** Text generation using Retrieval-Augmented Generation on organizational reports (2024) [link]
- **Deep Learning:** Neural network architectures and applications (2023) [link]
- **Computer Vision:** Image processing and vision algorithms (2023) [link]
- **Software Engineering:** Full-stack development with DevOps practices using Docker, GitHub Actions, React (2022-2023) [link]

Certifications

Machine Learning Specialization (Coursera) · Advanced Algorithms and Complexity (Coursera) · Algorithms on Strings (Coursera) · Algorithms on Graphs (Coursera) · Data Structures (Coursera) · Algorithmic Toolbox (Coursera)

Languages

Persian (Native) · English (Fluent) · Arabic (Basic)

Extracurricular Activities

- **Volunteer Member**, Students' Scientific Chapter, Computer Engineering Dept., Sharif University of Technology (2024-2026)
- **Executive Team Member**, 1st LLM Agents Hackathon, Sharif AI Chapter (May 2025)
- **Volunteer Member**, Computer Engineering Scientific Association, Iran University of Science and Technology (2022-2024)
- **Chief Staff**, Rayan International AI Contest