

Ramtin Moslemi



SUMMARY

Highly motivated researcher with a strong foundation in *Artificial Intelligence* and *Machine Learning*, eager to apply theoretical knowledge to practical challenges. My main focus lies in *Reinforcement Learning*, with a commitment to addressing key issues in *Adversarial Robustness* to build more secure and trustworthy AI systems. I am also deeply interested in *Geometric Deep Learning*, *Graph Neural Networks*, and the broad applications of *Generative AI*.

RESEARCH INTERESTS

- Reinforcement Learning
- Adversarial Robustness
- Geometric Deep Learning
- Generative Models

EDUCATION

SHARIF UNIVERSITY OF TECHNOLOGY

2020-present

B.S. IN COMPUTER ENGINEERING

- *Key Courses:* Artificial Intelligence | Machine Learning | 3D Computer Vision | Security & Privacy in ML

EXPERIENCE

SHARIF UNIVERSITY OF TECHNOLOGY

2023-present

RESEARCH ASSISTANT AT ROBUST AND INTERPRETABLE MACHINE LEARNING LAB

- Worked on adversarial robust learning and its generalization issues under the supervision of Dr. Rohban.

RESEARCH ASSISTANT AT MACHINE LEARNING LABORATORY

- Worked on music generation under the supervision of Dr. Soleymani and Dr. Javidpour.

RESEARCH ASSISTANT AT SHARIF CENTER FOR INFORMATION SYSTEMS AND DATA SCIENCE

- Worked on anomaly detection and federated learning under the supervision of Dr. Khalaj and Dr. Ahmadi.

TEACHING ASSISTANT AT THE DEPARTMENT OF COMPUTER ENGINEERING

- *Graduate:* Deep Learning | Reinforcement Learning | Security & Privacy in ML | Advanced 3D Computer Vision
- *Undergraduate:* Machine Learning (x3) | Artificial Intelligence | Probability & Statistics (x3) | Linear Algebra

TEACHING ASSISTANT AT THE DEPARTMENT OF COMPUTER SCIENCE

- *Graduate:* Generative Models | Machine Learning Theory

TEACHING ASSISTANT AT THE DEPARTMENT OF ELECTRICAL ENGINEERING

- *Graduate:* Deep Generative Models

SKILLS

PROGRAMMING LANGUAGES *Experienced:* Python | C | C++ | SQL | Java *Familiar:* R | Matlab | C#

FRAMEWORKS & LIBRARIES *Deep Learning:* PyTorch | TensorFlow | Keras | JAX *Vision:* OpenCV | YOLO

SOFTWARE ENGINEERING Object Oriented Design | Microservice Architecture | Agile Development

TOOLS AND TECHNOLOGIES *DevOps:* Docker | Kubernetes | Git | Prometheus | Grafana *MLOps:* MLFlow | TFX

OTHER SKILLS Linux | Bash | \LaTeX | Web Scraping | Teaching | Presentation | Teamwork

LANGUAGES *Native:* Persian *Fluent:* English *Intermediate:* Spanish