

PARSA RAHBARI

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[LinkedIn](#) [GitHub](#) [Medium](#)

SUMMARY

Research Assistant focused on scientific ML, RL, and numerical methods;

EDUCATION

Amirkabir University of Technology (Tehran Polytechnic)

Sep 2022 – Jun 2026

BSc in Computer Science **GPA: 3.82**

RESEARCH INTERESTS

Reinforcement Learning, Deep Learning, Scientific Machine Learning, Numerical Analysis

RESEARCH EXPERIENCE

Mindlab-AUT

Sep 2024 – Present

Research Assistant

Tehran, Iran

- Applied neural networks to solve differential equations for modeling biological systems.

EXPERIENCE

Teaching Assistant

Feb 2025 – Present

- **Deep Learning** – [Dr. Fatemeh Shakeri](#)
- **Numerical Analysis** – [Dr. Mostafa Shamsi](#)

PUBLICATIONS

Modeling Cellular Invasion with DeepONets – Learning growth and diffusion parameters (under review)

Supervised by [Prof. Abbaszadeh](#)

Accelerating Diffusion Models – Improving diffusion model inference for sample-inefficient tasks like RL (ongoing)

In collaboration with [Prof. Rohban](#), Sharif University of Technology

SELECTED PROJECTS

Q-Learning Macro-Actions: Improved FrozenLake-v1 agent with action chunking. [\[Repo\]](#)

Manifold Learning: Isomap and PCA/t-SNE on MNIST/Iran map. [\[Repo\]](#)

PageRank: Implemented with power iteration and eigendecomposition. [\[Repo\]](#)

Map Coloring CSP: Used MRV/LCV and AC-3 for CSP heuristics. [\[Repo\]](#)

Pacman: Built with custom AI for ghost logic. [\[Repo\]](#)

SELECTED COURSES

Deep Learning (Audited)

AI (20/20)

Advanced Programming (20/20)

Data Mining (18.39/20)

Deep RL (Audited)

Data Structures (20/20)

Linear Optimization (19/20)

Computational Geometry (18/20)

CERTIFICATIONS

[Advanced Learning Algorithms](#)

[Supervised Machine Learning](#)

[Unsupervised Learning + RL](#)

SKILLS

Programming: Python, C++, PyTorch, JAX **Languages:** English (Fluent), Persian (Native)