

Parsa Ghezelbash

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Education

Sharif University of Technology

Bachelor of Science in Computer Engineering

Tehran, Iran

Sept 2022 – present

- **Major GPA: 19.24/20**
- **Coursework:** Deep RL, Deep Generative Models, Deep Learning, Machine Learning, Convex Optimization

Young Scholars Club

in National Olympiad Preparation Camp

Tehran, Iran

Sept 2021 – Sept 2022

- Intensive training in advanced Physics, problem-solving, and competitive physic experiments.

Projects

DeepRL | [Repository](#) 🔗

Jan 2025 – Aug 2025

A repository featuring implementations and experiments with deep reinforcement learning algorithms.

- *DQN, PPO, SAC, Model Based RL, Exploration Methods, Offline RL, Meta RL, Multi-agent RL*

Deep Learning | [Repository](#) 🔗

Sept 2024 – Jan 2025

A collection of Implementations covering key deep learning concepts and experiments.

- *CNN, RNN, NLP, Vision, Auto Encoders, GANs*

Machine Learning | [Repository](#) 🔗

Sept 2024 – Jan 2025

Practical implementations and theoretical derivation of machine learning.

- *Supervised/Unsupervised learning, Neural Networks, CNNs, NLP, Contrastive Learning, Vision*

Advanced Convex Optimization | [Repository](#) 🔗

Sept 2024 – Jan 2025

Applied gradient descent, lagrange multipliers, and LP solvers to optimize convex problems.

- *CVXPY*

Notable | [Repository](#) 🔗

Jan 2025 – Aug 2025

A clean, lightweight Android client for the SimpleNote backend.

- *Kotlin, Android*

Teaching Assistant

Machine Learning

HW design & grading

Spring 2025

Designed a complete homework assignment on **Unsupervised ML, Kernel Methods**.

Probability & Statistics

HW design & grading

Fall 2024, Spring 2024, Fall 2025

Designed multiple homework assignments on **Probabilistic Inequalities, Statistics**

Linear Algebra

HW design & grading

Spring 2025, Fall 2024

Designed complete homework assignments on **Eigen Values/Vectors, Polynomials**.

Numerical Computation

HW design & grading

Spring 2025, Fall 2024, Spring 2024

Managed the whole course for a semester and designed multiple homeworks on different numerical methods.

- Head TA for Fall 2024

Skills

Programming: Python, Pytorch, Torch RL, TensorFlow, numpy, gymnasium, CVXPY, Java, Kotlin, Swift, C++, C, Git

Mathematics: Stochastic Process, Probability & Statistics, Calculus, Linear Algebra

Languages: English (fluent), Persian (native)