

Parsa Ghezelbash

📍 Tehran, Iran 📩 parsaghezelbash04@gmail.com 🌐 parsaghezelbash.github.io 💬 parsa-ghezelbash 💬 ParsaGhezelbash

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 physics 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

Spring 2025

HW design & grading

Desinged a complete homework assignment on **Unsuperviesd ML, Kernel Methods**.

Probability & Statistics

Fall 2024, Spring 2024, Fall 2025

HW design & grading

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

Linear Algebra

Spring 2025, Fall 2024

HW design & grading

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

Numerical Computation

Spring 2025, Fall 2024, Spring 2024

HW design & grading

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, Probablity & Statistics, Calculus, Linear Algebra

Languages: English (fluent), Persian (native)