

Mohammad Mashreghi

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EDUCATION

Over six years, I earned three academic degrees simultaneously: dual B.Sc. degrees in CE and EE from Tehran Polytechnic, and a M.Sc. degree in EE (dual level) from the University of Tehran (2016-2023, excl. 2022).

Tehran University

Tehran, Iran

Bachelor of Electrical Engineering

2020 – 2024

- Grade: 18.07/20 **US GPA: 3.88/4**

Derkhshande Sarraf High School

Yazd, Iran

Diploma in mathematics and physics

2017 – 2020

- Grade: 19.07/20

TOP AWARDS / HONOURS

- | | |
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| 1. 17 th Place among 103 Electrical Engineering B.Sc. students, University of Tehran
<i>Degrees: Electrical Eng.</i> | 2023 |
| 2. Ranked 1016 th in the National B.S Entrance Exam
<i>among more than 155,000 participants.</i> | 2020 |
| 3. Full Scholarship from the University of Tehran. | 2020 |

ARTICLES

”Risk Sensitivity in Multi Agent Reinforcement Learning Review”

- **Authors:** Hafez Ghaemi, Mohammad Mashreghi , and Shirin Jamshidi — **Status:** In progress

EXPERIENCE

• Teaching Assistant — Tehran University

- Electrical Introduction — Spring 2022, Spring 2023 — Dr. Samimi
- General workshop — Spring 2022, Spring 2023 — Dr. Samimi
- Engineering Probability and Statistics — Spring 2023 — Dr. A. Dehaqani
- Linear Control Systems — Fall 2023 — Dr. Yaghmaei
- Engineering Mathematics — Fall 2023 — Dr. Nasiri
- Digital Systems 2 — Fall 2023 — Dr. Safari

SKILLS

Programming Languages: Teamwork, Time Management, adaptability, Critical thinking

Programming Languages: Python, Java, C, C++, Matlab, HTML/CSS, Verilog

Embedded Systems: Arduino UNO/NANO/Pro mini, STM32F103

Miscellaneous: Ping Pong, Billiards, Swimming, Traveling

CURRENT RESEARCH INTERESTS

1. Federated Learning — 2. Adversarial ML — 3. Reinforcement Learning
4. Analyze Finance Market — 5. Dynamic Systems

COURSE PROJECTS

- **Robust-Federated-Primal-Dual-Learning-for-Android-Malware-Classification-via-Adversarial-Robustness** | In this project, the goal is to achieve robust federated learning for Android malware classification through adversarial robustness.
- **Detect fake picture with ML** | In this project, fake and real pictures of mountains, sea, and forests are used to detect fake ones.
- **Food Hunting** | A simple code for getting food faster than others, from students who don't want their food in university.
- **Deep Learning and Neural Network project** | MLP, Transfer Learning, Object Detection, Image Captioning, Intent Classification, Extractive QA System, Vision Transformer Image Classification
- **Trade bot** | A simple bot to buy and sell in forex, analyze candles with MACD 12, SMA, EMA 7 with complicated conditions.
- **Electromagnetic Levitation System Modeling** | A simple simulation in Matlab.
- **Designing an online market with C++ with different facilities** | An online market designed using C++ with various facilities.
- **Booth Multiplier** | A 5-bit booth multiplier implemented with Verilog.
- **MIPS** | An implementation of a MIPS CPU written in Verilog.
- **PacMan game** | A simple game in CMD.
- **Buffon's needle** | Buffon's needle is one of the oldest problems in geometric probability.
- **Euler's number** | Uniform sums and Euler's number.
- **Banach's matchbox** | Banach's match problem is a classic problem in probability attributed to Stefan Banach.
- **Birthday problem** | In probability theory, the birthday problem asks for the probability that, in a set of n randomly chosen people, at least two will share a birthday.
- **Image processing** | Detecting specific ICs on a PCB from its image.
- **RTL Circuits** | Design a circuit to calculate hyperbolic cosine approximately using its Taylor series.
- **UT-messenger** | A simple messenger made with C++ that works in the command line.

In addition, for more information about some of the university course project, please visit my [GitHub](#). I haven't uploaded the codes related to the inventions and articles on GitHub as of now they are under review.

CERTIFICATES

- **Using Python to Access Web Data** | Coursera
- **Advanced Learning Algorithms** | Coursera
- **Object-Oriented Data Structures in C++** | Coursera
- **Introduction to Git and GitHub** | Coursera

LANGUAGES

Persian: Native

English: Advanced