

Amir Mohammad Mahfoozi

📍 Tehran, Iran ✉ am.m8313@yahoo.com ☎ +98 (912) 892 11 69 🌐 amirMahfoozi

Education

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| BS | Sharif University of Technology , Computer Engineering | Sept 2022 – Present |
| | <ul style="list-style-type: none">Cumulative GPA: 19.31/20Major GPA: 19.79/20 | |
| HS | Allameh Helli High School , Mathematics and Physics | Sept 2021 – June 2022 |
| | <ul style="list-style-type: none">GPA: 19.93 / 20 | |

Experience

Research Experiences

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| <ul style="list-style-type: none">Research Assistant | Sept 2024–Present |
| Supervisor: Dr. Maryam Ramezani
Deep Matrix Factorization through Bayesian Neural Networks
for Recommender Systems
Data Science & Machine Learning Lab (DML)
Department of Computer Engineering, Sharif University of Technology | |
| <ul style="list-style-type: none">Research Assistant | July 2024–Present |
| Supervisor: Dr. Sharareh Alipour
Developed an iterative algorithm based on state-of-the-art methods for neural network pruning
Tehran Institute for Advanced Studies (TEIAS) | |

Teaching Assistant

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| <ul style="list-style-type: none">Linear Algebra, Dr. Hamid Reza Rabiee | Feb 2025 |
| <ul style="list-style-type: none">Engineering Probability and Statistics, Dr. Ali Sharifi Zarchi | Feb 2025 |
| <ul style="list-style-type: none">Data Structures and Algorithms, Dr. Mohammad Ali Abam | Sept 2024 |
| <ul style="list-style-type: none">Theory of Automata and Formal Languages, Dr. Mahdi Dolati | Sept 2024 |
| <ul style="list-style-type: none">Linear Algebra, Dr. Maryam Ramezani | Jan 2023 |
| <ul style="list-style-type: none">Fundamentals of Programming (Python), Dr. Armin-pour | Jan 2023 |
| <ul style="list-style-type: none">Fundamentals of Programming (Python), Dr. Kazemi | Jan 2023 |

Work Experiences

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| <ul style="list-style-type: none">Python Developer | May 2024-July 2024 |
| Director: Dr. Pouria Ramazi
developed a python Package for Inference Algorithms in Bayesian Networks | |
| <ul style="list-style-type: none">Frontend developer | April 2022- Aug 2022 |
| "Pendar pajouh" Company | |

Research Interests

- Artificial Intelligence
- Machine Learning
- Computer Vision
- Natural Language Processing
- Human Computer Interaction

Projects

MobileNet

- Implementing MobileNet V1 & V2 Architectures for Computer Vision with PyTorch

Text Classification

- BERT-based text classifier for detecting movie genres by it's description with in-depth EDA

Image Colorization and Segmentation

- Implementing VAE and U-Net

Floating Point convolution

- From scratch Verilog modules for calculating the convolution of Floating Point Matrix

AA Mobile Game

- casual mobile game using Java and JavaFX

Melody-Mentor

- Frontend for an startup music institute and mentorship platform using Angular Framework

Stronghold Game

- Turn based Desktop version of "Stronghold" Game using Java, JavaFX

Vim Text Editor

- Desktop Text Editor environment in Terminal with graphics using C

Honors & Awards

Ranked 31th out of 200 in a top-ranked computer engineering program according to GPA among classmates at Sharif University of Technology. year 2023-2024.

Ranked 54th out of 145,615 students (among the top 0.03%) in the National Iranian University Entrance Exam for the bachelor's degree (Concours), full scholarship from Sharif University of Technology, 2022

Related Skills

Languages: Python, Pytorch/Numpy/Pandas ,C++, C, Java/JavaFx, Verilog, Intel x86 Assembly, SQL, JavaScript

Hardware Programs : Quartus II, Proteus, ModelSim

Languages

Persian: Native speaker

English : C1 (IELTS 7.5)