

## EDUCATION

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<b>Sharif University of Technology</b> Bachelor of Computer Engineering, GPA: 18.84/20.00	Tehran 2020–Current
<b>Allameh Helli 1 School</b> Diploma in Mathematics and Physics, GPA: 19.11/20.00	Tehran 2014–2020

## HONORS AND AWARDS

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- **Top 0.005 Nationwide University Entrance Exams** Mathematics and Physics 2020
- **Bronze Medal** the National Astronomy and Astrophysics Olympiad 2019

## RESEARCH EXPERIENCE

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<b>Research Assistant</b> Sharif University of Technology, Professor Hossein Sameti – Skills: Interpretability, Transformers, Speech Recognition	August 2024 - Present
<b>Research Assistant</b> Sharif University of Technology, Professor Mahdiah Soleymani Baghshah – Skills: Transformers, Music Generation, Large Language Models	June 2024 - Present
<b>Research Assistant</b> University of Zurich, Professor Bjoern Menze – Skills: Biomedical Image Analysis, Computer Vision, Deep Learning	March 2024 - June 2024 - Paused
<b>Research Assistant</b> Wellcome Sanger Institute, Dr. Mo Lotfollahi – Skills: Deep Learning, Bioinformatics, PyTorch	June 2023 - October 2023

## RESEARCH INTERESTS

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Trustworthy Machine Learning  
Biomedical Informatics  
Biomedical Image Analysis

## PUBLICATIONS

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- **Self-Supervised Classification of Persian Musical Instruments Using Polyphonic Data Augmentation - Submitted to IEEE AIMG 2024**
  - In this project, we present a dataset for Persian instrument classification along with a novel polyphonic data augmentation technique which results in significant improvement of Persian instrument classification.

- **Accent-Invariant Automatic Speech Recognition via Saliency-Driven Spectrogram Masking - In Progress**
  - In this project, we aim to improve ASR models' accuracy and make them robust to different accents by masking the features that correspond to specific accents in our training data.
- **Towards Persian Music Generation - In Progress**
  - We are building a dataset of Persian music and caption pairs and also utilizing this dataset to generate music in Persian style.

## ACADEMIC SERVICE

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### Teaching Assistant

Sharif University of Technology

Tehran  
2021 - Present

- Intelligent Analysis of Biomedical Images, Graduate Course, Prof. Rohban, Fall 2024
- Machine Learning, Prof. Motahari, Spring 2024, Fall 2023
- Machine Learning, Dr. Seyedsalehi, Spring 2024
- Artificial Intelligence, Prof. Rohban Spring 2024
- Scientific & Technical Presentation, Prof. Kasaei Spring 2024
- Theory of Languages and Automata, Prof. Izadi, Spring 2024
- Artificial Intelligence, Prof. Rohban Prof. Soleymani Fall 2023
- Logic Design, Dr. Arshadi, Fall 2023 Spring 2023 Fall 2022
- Linear Algebra, Dr. Hossein Ghorban, Spring 2023
- Programming and Data Analysis with Python, Alireza Kadivar, Fall 2021

## COURSEWORK

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- **Machine Learning**
- **Artificial Intelligence**
- **Intelligent Analysis of Biomedical Images - Graduate Course**
- **3D Computer Vision**

## SKILLS

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- **Programming Languages and Frameworks:** Python, PyTorch, Java, C/C++, PostgreSQL
- **Writing and Presentation:** L<sup>A</sup>T<sub>E</sub>X, Word, PowerPoint
- **Software:** Quartus, Proteus, Git
- **Musical Instruments:** Piano, Electric Guitar

## LANGUAGES

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- **English:** Full Professional Proficiency, TOEFL iBT Scores: T=115, R=30, L=29, S=28, W=28
- **Persian:** Full Professional Proficiency
- **French:** Elementary Proficiency