

Education

Sharif University of Technology, Electrical Engineering, B.Sc. (18.09/20) <i>Communications Systems and Networks</i>	2019 – Present
Sharif University of Technology, Applied Mathematics, Minor (19.2/20)	2021 – Present

Research Interests

- Deep/Machine Learning (Theory and Applications)
- Federated Learning
- NLP and LLMs
- Computer Vision and Generative Models

Selected Research Experiences

Sensor Fusion for Autonomous Driving Systems (Bachelor Thesis) <i>AICD Lab, Supervisors: Dr. A. Fotowat Ahmadi, Dr. Z. Kavehvasht</i>	<i>Dec. 2022 – Oct. 2023</i> <i>Sharif University of Technology</i>
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- Development of a novel and efficient fusion algorithm named SideFusion to fuse camera and radar data in order to improve distance and velocity estimation. **Selected as one of the distinguished bachelor projects of the electrical engineering department.**

Reliable Face Authentication on Low-Resource Devices <i>SSEC Lab, Supervisor: Dr. B. Khalaj</i>	<i>Summer 2022</i> <i>Internship, Tehran</i>
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- Implementation of a reliable face authentication algorithm on a low resource device(Orange Pi3)

Machine Learning Engineer Intern <i>MCI Next Co., R&D team</i>	<i>Summer 2023</i> <i>Internship, Tehran</i>
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- Developing attention based recommendation systems for a social media. In this internship I worked with large language models, sequential models and large datasets

Technical and Soft Skills

Programming Languages	Python(PyTorch, Tensorflow, COBRA, Transformers, RecBole, Pandas, Numpy, CVXPY, ...), Java, C/C++, R
Related Software and Tools	MATLAB, Docker, GNS3, Wireshark, \LaTeX , PSpice, LTSpice
Operating Systems	GNU/Linux(Ubuntu, CentOS), Microsoft Windows
Soft Skills	Hard Working, Team Work, Enthusiastic to Learn New Topics

Honors and Awards

Ranked 53 out of +160000 applicants	National University Entrance Exam(Konkur)	2019
Mathematics Olympiad Silver Medal	National Olympiad of Mathematics	2018
Mathematics Olympiad Honors Diploma	National Olympiad of Mathematics	2017
Distinguished Bachelor Project	EE Department at SUT	2023
Member of National Elites Foundation	Iran's National Elites Foundation	Since 2017

Selected Courses

- Deep Learning
- Neuroscience
- Artificial Intelligence
- Convex Optimization
- Statistical Learning
- Computational Systems Biology
- Computer Vision LAB
- Differential Privacy
- Information Theory
- NLP with DL (CS224n)

Course Projects

Multimodal Sentiment Analysis

Fall 2022

Deep Learning Course Project

Sharif University of Technology

- Implementation of a sentiment analyser consisting of transformers and CNN backbones, in order to classify sentiments of movie scenes

BP-Spice: A Software to design simulate and visualize circuits

Spring 2021

Object Oeiented Programmign Course Project

Sharif University of Technology

- An Object Oriented software in Java, in which users can design a circuit, then visualize it and simulate it with different settings.

Image Denoising Using Dictionary Learning

Fall 2022

Linear Algebra Course Project

Sharif University of Technology

- Denoising images using combinations of various methods of sparse coding (MP, OMP, WMP), and dictionary learning (MOD, KSVD, A-KSVD)

Isolation of Relevant Visual Features from Random Stimuli for Cortical Complex Cells

Spring 2021

Neuroscience Course Project

Sharif University of Technology

- Implementation of "Isolation of Relevant Visual Features from Random Stimuli for Cortical Complex Cells" paper in Matlab

Teaching Experience

- Deep Learning (Graduate)
- Machine Learning
- Computer Architecture (×2)
- Communication Systems
- Theory of Circuits
- Engineering Mathematics

Language Proficiency

English	TOEFL score: 109 (R:28, L:30, S:25, W:26)
Azerbaijani	Native-Bilingual
Persian	Native-Bilingual

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