

ALI ANSARI

Tehran, Iran

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Education

Sharif University of Technology

Tehran, Iran

B.Sc. in Computer Engineering - Fully funded

Oct. 2020 – present

- Overall GPA: 19.26/20 (3.985/4.0) - GPA in Major: 19.50/20 (3.97/4.0)
- Thesis: A data-driven approach for robust detection of out-of-distribution data (Advised by Prof. **M.H. Rohban**) - Grade: 20/20

Hasheminejad 1 High School

Mashhad, Iran

Diploma in Mathematics and Physics

Sept. 2017 – June 2020

Publications

RODEO: Robust Outlier Detection via Exposing Adaptive Out-of-Distribution Samples

ICML 2024

4th author, in collaboration with Prof. Mohammad Hossein Rohban and Prof. Mahdieh Soleymani Baghshah

Scanning Trojaned Models Using Out-of-Distribution Samples

NeurIPS 2024

2nd join author, in collaboration with Prof. Mohammad Hossein Rohban and Dr. Mohammad Sabokrou

A Contrastive Teacher-Student Framework for Novelty Detection under Style Shifts

Submitted to ICLR 2025

8th author, in collaboration with Prof. Mohammad Hossein Rohban, Prof. Mahdieh Soleymani Baghshah, and Dr. Mohammad Sabokrou

Research Interests

- Trustworthy & Safe AI
- Large Language Models
- Representation Learning
- Generative AI
- Computer Vision
- Algorithms

Honors and Awards

Ranked 1st as a team in a nation-wide competition on developing Persian LLM

2024

- Worked on the problem of efficient inference of Falcon model on CPU.

Bronze Medal in Regional ICPC Contest

2022

Ranked 3rd among more than **150,000** students, National University Entrance Exam of Iran (Konkur)

2020

Received **silver medal** among over **10000** students, Iran National Olympiad in Informatics

2019

Research Experiences

Sharif University of Technology

Aug 2022 – present

*Research Assistant, supervised by Prof. **M.H. Rohban***

Tehran, Iran

- 1st Project: Adversarial Robustness of Outlier Detectors
- 2nd Project: Detection of Backdoor Attacks in Image Classifiers
- 3rd Project: Robust Novelty Detection under Style Shifts

Chinese University of Hong Kong

July 2024 – present

*Research Assistant, co-supervised by Prof. **Tsung-Yi. Ho** and Dr. **Pin-Yu Chen***

Hong Kong

- Project: Detection of jailbreaks in LLMs an accurate and effective manner

- Project: Minimizing cache misses in offline setting using Reference-Affinity scheme by leveraging parameterized algorithms

Teaching Experiences

Teaching Assistant (at Sharif University of Technology)

- Machine Learning - Spring 2024
- Computer Networks - Spring 2024
- Probability and Statistics - Spring 2022
- Design & Analysis of Algorithms - (Fall 2022, Spring 2023, Fall 2023)
- Data Structures and Algorithms - (Spring 2022)
- Theory of Languages and Automata - (Spring 2023)

Instructor

- Algorithms and data structures to volunteers of Informatics Olympiad - 2021

Coursework


University Major Courses

- Convex Optimization (17.8/20), Fundamentals of 3D Computer Vision (20/20), Machine Learning (20/20), Design & Analysis of Algorithms (20/20), Computer Networks (20/20), Artificial Intelligence (19.8/20), Linear Algebra (20/20)

Online Courses

- Optimization for Machine Learning (Online, EPFL)
- Deep Learning for Computer Vision (Online, cs231n, Stanford University)
- Optimization for Machine Learning (Online, EPFL)

Other Projects

TinyNeRF | Python, Pytorch |  Github


Winter 2024

- A simplified version of NeRF, implemented using PyTorch
- There is also an implementation of it in NeRF repository using TensorFlow
- This was the final project of Fundamentals of 3D Computer Vision course

C-Minus Compiler | Python |  Github

Fall 2023

- As a team, implemented a Compiler for C-Minus (A simplified version of C)
- This was the final project of Compilers Design course

YuGiOh | Java |  Github

January 2021, June 2021

- Implemented YuGiOh game in Java
- Used LibGDX as the main library for the game

Technical Skills

Languages: Python, C++, C, HTML/CSS, Java, SQL, Go, R

Technologies: Git, Docker, Bash

Frameworks: PyTorch, TensorFlow, Wandb

Work Experiences

Software Engineer at Divar

Tehran, Iran

Aug. 2021 – May 2022

- Worked with Django to develop the performance evaluation system for employees of the organization
- Tools & Frameworks: **Django** | **Python** | **Kubernetes** | **Docker** | **GitLab**

Languages

English | Professional Proficiency

IELTS Overall Band score: 8.0

Persian | Native proficiency

Hobbies

Hiking, Electronic Music, Movies, Podcasts

References

Mohammad Hossein Rohban

- Associate Professor - Sharif University of Technology
- rohban@sharif.edu

Mahdieh Soleymani Baghshah

- Associate Professor - Sharif University of Technology
- soleymani@sharif.edu

Mohammad Sabokrou

- Staff Research Scientist - Okinawa Institute of Science and Technology
- mohammad.sabokrou@oist.jp

Amir Kafshdar Goharshady

- Assistant Professor - Hong Kong University of Science and Technology
- goharshady@cse.ust.hk