

HOSSEIN GOLI

Computer Engineering Undergraduate Student

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EDUCATION

B.Sc. in Computer Engineering

Sharif University of Technology

📅 October 2020 – Ongoing 📍 Tehran, Iran

- Current GPA: **19.72/20**
- Current Major GPA: **20/20**
- Ranked **4/197** in CE Department

National Physics Olympiad Silver Medalists

Iranian Young Scholars Club

📅 June 2019- August 2019 📍 Tehran, Iran

Diploma of Mathematics and Physics

📅 2014-2020 📍 Tehran, Iran

Affiliated with National Organization for Development of Exceptional Talents (NODET)

- Diploma GPA: **19.75/20**

RESEARCH

- **Working under the supervision of Dr. HR. Rabiee and M. Ramezani**
Researching Burst Detection in Social Networks Using Survival analysis and Neural networks | Dec 2022 - Present

TEACHING EXPERIENCE

Physics Olympiad Instructor

📅 2020-2022

Teaching Calculus and Electromagnetics at various schools around Iran.

Teaching Assistant at Sharif University of Technology

📅 2020- Ongoing

- **Artificial Intelligence** | Dr. MH. Rohban | Spring 2023
- **Machine Learning** | Dr. AS. Motaharee | Spring 2023
- **Probability and Statistics** | Dr. A. Sharifi-Zarchi | Fall 2022
- **Linear Algebra** | Dr. HR. Rabiee and M. Ramezani | Fall 2022
- **Advanced Programming** | Dr. MA. Fazli | Spring 2022
- **Logic Design** | Dr. S. Hessabi | Spring 2022
- **Fundamental of Programming** | Dr. MA. Fazli | Fall 2021

ACADEMIC SERVICES

- Scientific Staff, **2022 AI challenge**, Iran's Largest AI Competition
- Head of phase 1, **2022 Leauge of coders** Programming contest for CE first year students in many topics of Computer Science
- Game theory mentor, **Rasta Summer School**, Computer Science summer school for high school students

SKILLS

Programming Languages: Python, C/C++, Java, R, Verilog

Frameworks: Pytorch, Keras, Scikit-Learn, Pandas

Languages: Farsi (Mother Tongue), English (Advanced)

HONORS AND AWARDS

NATIONWIDE UNIVERSITY ENTRANCE EXAMS

2020 • MATHEMATICS And PHYSICS
Ranked 32th (Among +150,000)

IRANIAN NATIONAL PHYSICS OLYMPIAD

2019 • Silver medalist

RELEVANT COURSES

- Artificial Intelligence (20/20)
- Machine Learning (20/20)
- Probability and Statistics (20/20)
- Linear Algebra (20/20)
- Advanced Programming (20/20)
- Data Structures and Algorithms (20/20)
- Machine Learning (Stanford CS229, online, audited)
- Deep Learning for Computer Vision (Stanford CS231N, online, audited)
- Convolutional Neural Networks (Coursera)
- Neural Networks and Deep Learning (Coursera)
- Supervised Machine Learning, Regression and Classification (Coursera)

PROJECT EXPERIENCE

Yu-Gi-OH Trading Card Game

Advanced Programming Project

Yu-Gi-Oh game based on famous trading card game Joey the passion written in Java

Image Captioning

I use LSTM and encoder-decoder architecture for image captioning on Flickr8k dataset.

Graph Clustering

Linear Algebra Project

Graph clustering using python and linear algebra

Handwritten-digit-Classification

I use Residual CNN on the MNIST Dataset for digit classification using Pytorch.

Eigenface

Linear Algebra Final Project

Face recognition using eigenfaces and PCA

Cwitter

Fundamental of programming project
client server twitter written in C