HOSSEIN GOLI

Computer Engineering Undergraduate Student

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ngoli02

in Hossein Goli

EDUCATION

B.Sc. in Computer Engineering

Sharif University of Technology

October 2020 - Ongoing

▼ Tehran, Iran

• Current GPA: 19.75/20

• Current Major GPA: 19.99/20

• Ranked 3/198 in CE Department

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 EXPERIENCE

• Working under the supervision of Prof. Farzan Farnia - CUHK Researching Certified Robustness and Generalization of Neural Networks and increasing the current metrics using unsupervised vision techniques such as Superpixel Segmentation.

We Plan to submit our work to IJCAI 2024.

• Working under the supervision of Prof. 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. Motaharei | 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 Al challenge, Iran's Largest Al Competition
- Head of phase 1, 2022 Leauge of coders Programming contest for CE first vear 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)

RESEARCH INTERESTS

Machine Learning

Robustness

Reinforcement Learning

Robotics

Trustworthy ML Computer Vision

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)
- Modern Information Retrieval (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)

PROJECT EXPERIENCE

Image Captioning

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

Graph Clustering

Linear Algebra Project Graph clustering using Python and linear algebra

Handwritten-digit-Classification

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

Eigenface

Linear Algebra Final Project Face recognition using eigenfaces and PCA

Yu-Gi-OH Trading Card Game

Advanced Programming Project Yu-Gi-Oh game based on the famous trading card game Joey the Passion in Java