Arshia **Soltani Moakhar**

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Education

Sharif University of Technology

Tehran, Iran

B.S. IN COMPUTER ENGINEERING

Sep. 2019 - present

- Overall GPA: 18.31/20
- Last two semesters GPA: 19.66/20.

Allameh Helli High School

Tehran, Iran

Sep. 2017 - Oct. 2019

DIPLOMA IN MATHEMATICS AND PHYSICS

Overall GPA: 18.22/20

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

Publications

Your Out-of-Distribution Detection Method is Not Robust!

NeurIPS

ADVANCES IN NEURAL INFORMATION PROCESSING SYSTEMS

2022

- We found that Out-of-Distribution Detection methods are not robust against end-to-end attacks. In addition, We propose a method named ATD which significantly outperforms other methods.
- Second Author

Honors & Awards

2019	Silver Medal , International Olympiad in Informatics (same as Algorithm Design in Computer Science)	Baku, Azerbaijan
2019	Bronze Medal, international junior competitive programming competition, infO(1)CUP	Romania
2018	Gold Medal (First Place), National Olympiad in Informatics	Tehran, Iran
2017	Silver Medal, National Olympiad in Informatics	Tehran, Iran
2020	First Place, Sharif CodeJam	Tehran, Iran

Research Experience

Robust and Interpretable Machine Learning Lab

Sharif University of Technology

RESEARCH ASSISTANT

Aug. 2021 - Present

- Under Dr. Mohammad Hossein Rohban Supervision
- Publish a paper in **NeurIPS 2022** with this lab
- Research in Out-of-Distribution detection methods and Adversarial Robustness methods intersection.

Domain Incremental Continual Learning

Sharif University of Technology

RESEARCH ASSISTANT

Sep. 2021 - Mar. 2022

- Under Dr. Mahdieh Soleymani Baghshah Supervision
- Analyzing the neural networks which continually adapt to new domains.

Teaching

Main Graph Theory Instructor

Tehran, Iran

SUMMER CAMP FOR IRAN NATIONAL OLYMPIAD IN INFORMATICS

2021

• Forty students chosen from 10000 students by three exams participated in the summer camp.

Algorithm Instructor

Tehran, Iran

NATIONAL TEAM CAMP FOR IRAN'S NATIONAL OLYMPIAD IN INFORMATICS.

2021-2022

- The national team consists of the four chosen students from 10000 students.
- I am responsible for some graph algorithms, e.g., maximum flow.

Game Theory Course Design, Team Leader

Isfehan, Iran RASTAIHA(NGO) Mar. 2021

The team designed a two parts online course for high school students.

- The first part topic was "Truthful Allocation Mechanisms Without Payments."
- The second part was about collaboration: core Value and Shapley Value.

Algorithm tutor Tehran, Iran

HIVA KARAMI AND NEGAR ARJ PERSONAL TUTORE

2019 - 2021

- Hiva has achieved a national gold medal in INOI.
- She was the first girl to achieve this medal in the past ten years.
- Those classes were almost free, aiming for more sexual equality in INOI.

Experience

Iran National Olympiad in Informatics

Tehran, Iran

ALGORITHMIC PROBLEM DESIGN TEAM LEADER

Jul. 2020 - Sep. 2021

- The team designed **novel** and **challenging** algorithmic problems.
- Exams chose Iran national team, sent to International Olympiad in Informatics.
- As a leader, I manage the team and meetings. Evaluate problems and assign problems to members for test genera-

Related Courses

Sharif University of Technology

Artificial Intelligence	20.0/20
Machine Learning	20.0/20
Discrete Structures	20.0/20
Data Struct & Algorithms	20.0/20
Design Of Algorithms	20.0/20
Game Theory	20.0/20
Adv Information Retrieval(NLP)	19.9/20
Theory Of Machines & Language	19.5/20
Linear Algebra	18.8/20
Eng Probability & Statatic	18.2/20

Online Courses

Deep Learning Specialization by DeepLearning.AI

Basic Generative Adversarial Networks by DeepLearning.AI

Game Theory I, II by Stanford University

Multi-Task and Meta-Learning(CS330) by Stanford University

Introduction to Deep Learning 11-785 by CMU University

Skills

Machine Learning Python, Pytorch, TensorBoeard, Numpy, Pandas, Matlab

C++, Java, JavaScript, Bash, Linux, Git, Django, Racket Coding

Writing MFX, Visio