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Amir Hosein Haji Mohammad Rezaie

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EDUCATION

Bachelor of Computer Engineering

Aug 2020 - Present

Sharif University of Technology, Iran, Tehran

current GPA: 3.97/4

Diploma at Mathematics and Physics

Aug 2017 - July 2020

Atomic Energy High school, Iran, Tehran

total GPA: 19.94/20

International Olympiad preparation course

Aug 2019 - July 2020

Young Scholar's Club, Iran, Tehran

HONORS & AWARDS

Bronze medal of 14th International Olympiad on Astronomy and Astrophysics

Aug 2020

Estonia(online)

Gold medal of 15th National Olympiad on Astronomy and Astrophysics

Sep 2019

I ranked 4th among 54 students in final step in olympiad

Member of INEF

Aug 2020 - Present

Awarded the Scholarship of elite students to be exempted from Iranian univeristy exam

WORK EXPERIENCE

Research Assistant

June 2022 - Present

Sharif University of Technology

- research assistant at the [RIML](#) laboratiry supervised by [Dr. Mohammad Hossein Rohban](#)
*I work with [Mohammad Azizmalayeri](#)(PhD Student in Aritificial Intelligence supervised by [Dr. Mohammad Hossein Rohban](#)) and our studies is about developing methods to solve *Spurious Correlations* problems for State-of-the-Art deep learning models. the result of my work in this lab is a paper that is submitted and accepted in [ICML 2023 SCIS workshop](#)
. you can see the submission page for paper [here](#)*

Machine Learning Research Assistant

June 2023 - Present

L3S Research Center

- research assistant at the [L3S Research Center](#) supervised by [Prof. Prasenjit Mitra](#)
I work with [Ali Rasekh](#)(PhD Student in Aritificial Intelligence supervised by [Prof. Prasenjit Mitra](#)) and our studies is multi-modal deep neural network. More precisely, I investigate methods to make this kind of model robust againt datasets that their samples have missing modality problem which can decrease the performance of multi-modal models.

Data science intern

July 2023 - Present

MCI

- [7th internship at MCI](#)
I work on several projects to develop NLP models for different tasks. currently, I'm working on main-content detection project to use NLP models for detecting main-content on html web page.

Teaching Assistant

Sharif University of Technology

Sep 2022 - Present

Iran, Tehran

- Artificial Intelligence - Spring 2022 semester (in progress) - presented by [Dr. Mohammad Hosein Rohban](#)
I design practical PyTorch assignment for Neural Networks topic and the final course project.
- Advanced Programming - Spring 2022 semester (in progress) - presented by [Dr. Mohammad Amin Fazli](#)
I design practical java programming assignments and also I work in the team of designing course project.
- Data Structures and Algorithms - Fall 2022 semester - presented by [Mahdi Safarnejad-Boroujeni](#)
I design theoretical assignments and I grade midterm and quizzes exams.
- Linear Algebra course - Fall 2022 semester - presented by [Dr. Samira Hosein Ghorban](#)
I design theoretical assignments and jupyter notebooks for lecture sessions.
- Engineering probability and statistics - Fall 2022 semester - presented by [Dr. Ali Sharifi Zarchi](#)
I design theoretical assignments in this course and I grade the answers given to assignment.
- Engineering probability and statistics - Fall 2022 semester - presented by [Dr. Abolfazl Motahari](#)
I grade the answers given to quizzes and assignments and I hold the quizzes.
- Fundamentals of C programming course - Fall 2022 semester - presented by [Dr. Mohammad Amin Fazli](#)
I design C programming assignments in this course and I hold troubleshooting class for students.
- Fundamentals of python programming course - Fall 2022 semester - presented by [Aria Kowsary](#)
I design python programming assignments in this course.

Astronomy Olympiad teacher

Aug 2019 - June 2022

Iran, Tehran

I taught the Astronomy Olympiad topics such as Astrophysics, Data Analysis, Cosmolgy, ... in Irans' best high schools.

PROJECT

Image Classification

June 2022

Artificial Intelligence course project

In this work, I implemented the architecture of ResNet-18 neural network and trained it on CIFAR-10 dataset which achieves 90% accuracy on test time and also I visualized the feature space of the dataset which is extracted by the model.

Image Colorization

June 2022

Artificial Intelligence course project

In this work, I implemented the architecture of U-Net neural network and trained it on CIFAR-10 dataset which I use this model to colorize the grayscale images and you can see the results in description of the repository.

DDQN-Implementation

June 2022

Artificial Intelligence course project

In this project, I implemented the DDQN algorithm for doing reinforcement learning on ping-pong atari game in OpenAI-Gym environment. you can see the results of training and playing of agent in the description of repository.

YuGiOh Game

June 2021

Advanced Programming course project

I was one of the members of team 45 to implement [YuGiOh game](#) for the Advanced Programming course presented by [Dr. Mohammad Amin Fazli](#). Technologies that we used for this project are: Java, JavaFX, CSS. Also we implemented this game on the network by using ngork.

PUBLICATIONS

M. Azizmalayeri*, R. Abbasi*, **A. haji Mohammad rezaie***, R. Zohrabi*, M. Amiri*, M. T. Manzuri, M. H. Rohaban, "Spuriousity Rankings for Free: A Simple Framework for Last Layer Retraining Based on Object Detection", *ICML 2023 SCIS workshop*, 2023 (*equal contribution)

SKILLS

Programming	Python, R, Java, C ,C++, Git, html, css, javascript, L ^A T _E X, Markdown
Python packages	Numpy Scipy, Scikit-learn, Pytorch, TensorFlow
DBMS	MongoDB, PostgreSQL
Hardware Design	Verilog, Quartus, ModelSim
Communication	Persion (native), English (professional), Arabic (intermediate)
Other	Github, Microsoft Office

COURSEWORK

Machine Learning: 20/20

Artificial Intelligence: 19.9/20

Linear Algebra: 20/20

Signals & Systems: 20/20

Computer simulation: 20/20

Engineering Probability and Statistics: 20/20

Advanced Programming: 20/20

Fundamentals Programming: 19/20

Digital System Design: 19.6/20

Algorithm Design: 18.5/20