Amir Pouya Moeini

Tehran
Iran
✆ 09203714128
✉ pooyamoini2000@gmail.com
⌂ www.ce.sharif.edu/ pmoeini
Linkedin

Education

2014–2018	**Diploma**, *Iran Atomic Energy High school* .
2018–present	**BSc. Computer Engineering**, Sharif University of Technology - SUT.
2020–present	**Minor. Mathematics**, Sharif University of Technology - SUT.

Honors

2017	**Gold Medal**, *in National Olympiad Astronomy and Astrophysics*, By winning this medal, I was able to select any university and any major I want to.
2017–present	**Member of**, *Iran's National Elites Foundation*.
2018	**Official member of 12th team of IRAN**, *in International Olympiad Astronomy and Astrophysics (IOAA in Beijing - China)*, which earned <u>First</u> place better than Russia, China, USA, Korea, ...
2018	**Gold Medal**, *in International Astronomy and Astrophysics Olympiad (China - Beijing)*.

Research Interests

Academic Research Interests.
- Statistical Machine Learning
- High Dimensional Statistics
- Meta Learning
- Computer Vision
- Information Theory

Academic Teaching Experience

Linear Algebra , Prof. Abolfazl Motahari - winter 2020

Probabilities and Statistics , Prof. Naeimeh Omidvar - winter 2020   *Responsible for Statistics section*

Advanced Programming - winter 2020   *Member of assignments and projects team*

Linear Algebra , Prof. Hamid R Rabiee - fall 2020-21   *Responsible for practical assignments*

Probabilities and Statistics , Prof. Ali Sharifi - fall 2020-21   *Responsible for Statistics section*

Data Structures and Algorithms , Prof. Masoud Seddighin - fall 2020-21   *Responsible for Graph section*

Academic Research Experience

June2020-
Now

Undergraduate Research Assistant @DML   *Sharif University of Technology, Tehran*

Under supervision of Professor Hamid R Rabiee - Social Media, Multimedia Systems

Related Courses

Courses Related to my Research Interests.

- Linear Algebra (18.5/20) - Prof. Abolfazl Motahari
- Probability and statistic (18.9/20)s - Prof. Ali Sharifi Zarchi
- Data Structures and Algorithms (20/20) - Prof. Mahdi Safarnejad
- Artificial Intelligence (pending) - Prof. Mahdiyeh Soleymani
- Topics in Communication (Graduate Course - Advanced theory of ML, pending) - Prof. Mohammad Ali Maddah-Ali
- Topics in Statistics (Graduate Course - Bayesian Statistics and Learning, pending) - Prof. Kasra Alishahi

Courses I have audited

- Machine Learning (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani
- Deep Learning (Graduate Course - Audited) - Prof. Mahdiyeh Soleymani
- Stochastic Process (Graduate Course - Audited) - Prof. Kasra Alishahi
- Reinforcement Learning (Graduate Course - Audited) - Prof. Kasra Alishahi
- Information Theory (Graduate Course - Audited) - Prof. Mahtab Mirmohseni
- Introduction to Blockchain (Graduate Course - Audited) - Prof. Mohammad Ali Maddah-Ali
- Many other courses from Stanford, MIT, ...

Computer Skills

Programming
Languages

Python (Advanced), R(Advanced), JavaScript(Advanced), Java(Advanced), C, Matlab

Libraries

Python: Pytorch(Advanced), Django(Advanced), NetworkX, Tensorflow
Javascript: React(Advanced), Redux, Node

Languages

Persian   Native
English   Intermediate

Academic Activities

Sharif Data Days 2020: Technical and Exec Staff
WSS (Winter seminar series) 2021: Member of Content team
Sharif Data Days 2021: Member of Scientific team

Projects

Fall 2020-21   **DML Laboratory**, *Privacy VS Personalization: A Private Meta-Learning Approach for Distributed Data Personalization and user Profiling*.
under supervision of Prof Hamid R Rabiee

Fall 2020-21   **DML Laboratory**, *Fake news Detection and Mitigation*.
under supervision of Prof Hamid R Rabiee
Using Representation Learning and Attention models to predict information in cascades and mitigate fake news.

Summer 2019   **Member of Iranian National Observatory Project**.
under supervision of Habib Khosroshahi
Calculating the seeing of the sky (Automatically and Manually), Thus the main telescope will have the situation of the weather and can decide is the weather appropriate for the observation or not.

Fall 2019-20   **DataDays event website**, *Frontend member of DataDays event - website team*.
As an important part of the Technical team of this event, We developed the website (Frontend) using Nextjs as the main framework. You can see source the code here.

Winter 2020   **Reddit website**, *Web programming course project*.
Creating a website inspired by Reddit and Instagram. We used Nextjs as the frontend framework and Django-rest as the backend framework. You can see the source code here and the video of the website here. [under supervision of Behnam Hatami]

Spring 2020   **Cat or Dog**, *a telegrom bot for cat or dog classification problem*.
I've created a telegram bot for cat or dog classification and I named it "The most stupid telegram bot ever". You can see the source code from here. [The main purpose of this project was mostly my own practice.]

Spring 2020   **This Anime Character Doesnt Exist**, *DCGAN implementaion on the anime-faces dataset*.
According to this paper, I've implemented an **anime character generator** using the DCGAN model. you can see the project here. [The main purpose of this project was mostly my own practice.]

Work Experience

2017–2020   **Olympiad Instructor**.
I'm teaching Astronomy and Astrophysics Olympiad to students.
Topics I have taught so far:

- Classical Mechanics, Astrophysics, Cosmology and General relativity, Spherical Astronomy, Special relativity, Data analysis

Places I've worked so far:

- Iran Atomic Energy High school, Salam High school, Allame Tabatabei, Farzanegan2

Hobbies

I'm an Amateur cinema critic and I write reviews on some specific websites.

I'm an amateur Observer.

I'm an amateur piano player and interested in Rachmaninoff music.

I'm a collector of Star Wars movie action figures.

I'm an amateur table tennis player.

Soft Skills

Communication
Teamwork
Adaptability and flexibility
Work Ethic
Time Management