Amir Pouya Moeini

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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 and Theoretical Machine Learning
- High Dimensional Statistics
- Meta Learning
- Information Theory

Academic Teaching Experience

Linear Algebra , Prof. Motahari - winter 2020   *Responsible for PSD, SVD, Projection*

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

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

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

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

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

Academic Research Experience

June 2020-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 - Prof. Abolfazl Motahari
- Probability and statistic - Prof. Ali Sharifi Zarchi
- Data Structures and Algorithms - Prof. Mahdi Safarnejad
- Artificial Intelligence - Prof. Mahdiyeh Soleymani
- Topics in Communication (Graduate Course - Machine Learning theory) - Prof. Mohammad Ali Maddah-Ali
- Topics in Statistics (Graduate Course - Bayesian Statistics and Learning) - 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, ...

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**, *Fair Private Meta-Learning: Fair-Private Meta-Learning (FPML) Approach for Distributed Multi-Task Data*.
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.

Visit my github page for more small projects.

Academic Activities

Sharif Data Days 2020: Technical and Exec Staff

WSS (Winter seminar series) 2021: Member of the Content team

Sharif Data Days 2021: Member of the Scientific team

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

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

Soft Skills

Communication

Teamwork

Adaptability and flexibility

Work Ethic

Time Management