Keyvan Najafy

E-mail: keyvan.najafy1@sharif.edu | Phone: (+98)919-293-8072
LinkedIn: https://www.linkedin.com/in/keyvan-najafy | GitHub: https://github.com/keyvan-najafy

EDUCATION

Massachusetts Institute of Technology (MIT) *Feb 2021 - May 2024*
MicroMaster in Data, Economics, & Design of Policy: International Development | Grade: 85% Avg
Relevant Courses: Political Economy, Foundations of Development Policy, Designing Randomized Evaluations

Sharif University of Technology (SUT) *Sep 2023 - Present*
Master of Science in Energy Systems Engineering, Energy & Environment Orientation | In Progress
Relevant Courses: Operation Research, Climate Change, Energy Policy

Sharif University of Technology (SUT) *Sep 2016 - Dec 2021*
B.Sc. in Mechanical Engineering | Minor in Economics | GPA: 3.04
Relevant Courses: Microeconomics, Macroeconomics, Game Theory, Economic Growth, Econometrics

National Organization for Development of Exceptional Talents (SAMPAD) *Sep 2012 - Jun 2016*
High School Diploma in Physics & Mathematics | GPA: 3.83

HONOURS

National Bronze Medal of Astronomy & Astrophysics Olympiad *Sep 2015*
Top 0.01% After Completing 9 Stage of Graduate Level Exams While Being High School Student *Issued by Ministry of Education of Iran*

Top Ranking in National University Entrance Exam (Konkur) *Sep 2016*
Rank 573 Among More Than Half a Million Participants *Issued by Ministry of Education of Iran*

EXPERIENCE

Sharif Research Policy Institute (SPRI): Data Scientist *Mar 2021 - Present*
- Creating a Data-Driven Natural Gas Pricing Schema For Household Consumers Based on ML & VCG Mechanism *Tehran, Iran*
- Studying & Modeling of Bitumen Local & Global Markets for Designing a New Local Market
- Designing Software for Monitoring & Prediction of International & Local Market Indicators Based on Multiple Deep Learning Pipelines
- Creating Interactive Real Time Dashboards for Managers & Policy Makers Based on FastAPI, Streamlit, & Plotly Dash
- Gathering, Cleaning &, Managing Data From Numerous Sources in a Country without Free Flow of Information

Sharif University of Technology (SUT): Research Assistant | Supervisor: Prof. Shahin Rouhani *Jan 2018 - Present*
- Crypto & Stock Market Causality Analysis Based on Principle of Least Action, Graph Theory, & Deep Learning *Tehran, Iran*
- Big Data Analysis of Open Source Social Media Data Using NLP & OCR
- Complex Systems, Edge Computing, & Machine Learning Research

Sharif Social & Cognitive Robotics Lab: Research Assistant | Supervisor: Prof. Ali Meghdari *Nov 2020 - Nov 2021*
- Emotion Analysis of Social Robot User Using Convolutional Neural Networks | My Bachelor's Final Project *Tehran, Iran*

MicroElectronics Research and Development Center (MERDCI): Software Engineer | Supervisor: Prof. Shahin Rouhani *Jan 2020 - Jan 2021*
- Designing a Face Recognition System for Banks for Online User Verification During Common Transactions *Tehran, Iran*

Farnia Security Cameras: Mechanical Engineering Intern (Remote Due to Covid) *Jul 2020 - Sep 2020*
- Heat Transfer Analysis of Commercial CCTV Cameras for Stores & Parking Lots During Summer Daylight *Arak, Iran*
- Second 240 Hour Internship of my Bachelor Degree | Supervisor: Dr. Famida Fallah

Tosan Electric Cars: Mechanical Engineering Intern *Jul 2019 - Sep 2019*
- Designing Automotive Suspension System of a Public Electric Car for City usage *Tehran, Iran*
- First 240 Hour Internship of my Bachelor Degree | Supervisor: Dr. Alireza Taheri

Sharif University of Technology (SUT): Teaching Assistant *Sep 2017 - Jun 2019*
- Strength of Materials 2 & Strength of Materials Lab | Supervisor: Dr. Mohsen Asghari *Tehran, Iran*
- Principles of Economics | Supervisor: Dr. Masoud Nili

National Organization for Development of Exceptional Talents (SAMPAD): Teacher *Oct 2017 - May 2018*
- Astrophysics Teacher for Junior Astronomy & Astrophysics Olympiad Participants *Tehran, Iran*

CERTIFICATES

Data Scientist with Python *May 2020*
More than 20 Online Courses (84 Hours) on Programming, Data Science & Machine Learning *Issued by DataCamp*

Game Theory II: Advanced Applications *May 2021*
More than 14 Hours Online Course on Game Theory & Mechanism Design *Issued by Coursera & Stanford University*

SKILLS

Programming Languages	Python, R, C, MATLAB, Bend
Databases & Big Data Tools	PostgreSQL, Elasticsearch, Apache Spark, Apache Hadoop, Neo4j, MongoDB
Engineering Tools & Softwares	Git, Stata, Docker, LaTeX, Selenium, COMSOL, CATIA, SOLIDWORKS, ANSYS,
Languages	English(Fluent), Persian(Native), Arabic(Basic)
Interests	Physics, History, Movies