

# Siavash Razmi

## CONTACT

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Social Network Laboratory,  
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## RESEARCH INTERESTS

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- Machine Learning
- Data Analytics
- Social Networks Analysis
- FinTech
- Time Series Analysis
- Quantitative Finance

## EDUCATION

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**University of Tehran** **Sep 2021 - Jan 2023 (expected)**  
Master of Engineering in Computer Science - Artificial Intelligence  
**Supervisor:** [Dr. Masoud Asadpour](#), **Thesis:** "Algorithmic Trading Using Neural Networks", **Overall GPA:** 4.0 (19.4/20), (Faculty and Group's Average GPA are 16.59 and 17.11 respectively)  
The University of Tehran is one of Iran's most prestigious institutions and an esteemed center for Artificial Intelligence.  
**University of Azad** **2014 - 2018**  
Bachelor of Engineering in Electrical Engineering, **GPA:** 3.22 (16.1/20)

## EXPERIENCE

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- **Research Assistant**, Social Network Laboratory, University of Tehran **Sep 2021- Present**
- **Research Assistant**, Supervisor: [Dr. Sasan Barak](#) **Jul 2023- Present**  
Applying Machine Learning to Improving Trading Strategies
- **Research Assistant**, Supervisor: [Dr. Heshaam Faili](#) **May 2023- Present**  
Sentiment Analysis of Persian Financial News Using Natural Language Processing
- **Machine Learning Engineer**, [Tensurf LLC](#). **Jul 2022 - Apr 2023**  
Developing ML models for Price Movement Prediction in The Stock Market, Designing Trading Strategies based on those models, and Data Analysis on The Market Data (Especially Limit-order-book and Market-by-order data)

## COURSES

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- Machine learning **GPA: 4.0, (17/20)**
- Data Analysis **GPA: 4.0, (19/20)**
- Deep Neural Networks **GPA: 4.0, (19.39/20)**

- Statistical Inference GPA: 4.0, (20/20)
- Social Networks GPA: 4.0, (20/20)
- Reinforcement Learning GPA: 4.0, (20/20)
- Advanced Robotics GPA: 4.0, (20/20)

## PROJECTS

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- Bitcoin Futures, Price Prediction Based On The Depth of Market Data Using Deep Learning Methods
- Bitcoin Algorithmic Trading Robot Based on Reinforcement Learning
- Persian Users' Graph of Tweets Network Analysis in Iran's 2022 Protests
- QS Institute's 2020 University Rankings Analysis And Rank Estimation Using Machine Learning.
- Business Analytic of Online Persian Travel Services using Their Crawled Data
- Automatic Space Shuttle (Lunar-Lander) Landing using DDQN in Gym Environment
- Synthetic Image Generation using GANs
- Musical Instruments' Audio Classification Using ML models
- Robot Localization and Mapping Using Particle Filter Algorithm

## TEACHING EXPERIENCE

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- **Deep Neural Networks**, Dr.Ahmad Kalhor (Teacher's Assistant) **Fall 2022**  
Mentoring the Students to Implement a Fraud Detection System for Credit Card Transactions using Neural Networks.
- **Deep Neural Networks**, Dr.Ahmad Kalhor (Teacher's Assistant) **Spring 2023**  
Mentoring the Students to Implement a Violence Detection System for Video using Deep Neural Networks.
- **Statistical Inference**, Dr.Abdolhossein Vahabi (Teacher's Assistant) **Spring 2023**  
Mentoring the Students to Learn about Non-Parametric Tests and their Use in Real World Problems (using R Language).

## SKILLS

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**Programming/Packages:** Python, R, PyTorch, TensorFlow, SQL, NetworkX, igraph **Software:** Git, Gephi **OS:** Windows, Linux, Windows Server **Typesetting:** Microsoft Word, L<sup>A</sup>T<sub>E</sub>X

### Soft Skills

Team Work, Problem-Solving, Time Management, Adaptability/Flexibility

### Languages

English (Fluent), Persian (Native)

## AWARDS AND ACHIEVEMENTS

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- Ranked 2nd in The master's program.
- Ranked 32nd in The Masters Level University Entrance Exam (Among Approximately Twelve Thousand People).
- Exemption from tuition fees for master's level studies.