

MOHAMMAD SAADATI

Gwangju, South Korea — DOB: 15 May 2001

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Education

Gwangju Institute of Science and Technology (GIST)

M.S. in Artificial Intelligence

Advisor: Prof. Sundong Kim

Gwangju, South Korea

Sep. 2025 - Present

University of Tehran

B.Sc. in Computer Engineering

Tehran, Iran

Sep. 2019 - Jul. 2024

Relevant Courses: Reinforcement Learning(Master's course), Advanced Interactive Learning(Master's course), Artificial Intelligence, Data Mining(Master's course), Game Theory, Engineering Probability and Statistics, Data Structure and Algorithm, Discrete Mathematics, Advanced Programming, Operating Systems, Database Design, Software Engineering, Internet Engineering, Distributed Computing, Operational Research

Research Interests

- Reinforcement Learning
- Machine Learning
- Data Science & Big Data
- Multi-Agent Systems & Robotics
- Generative AI (LLMs)
- Software Engineering

Research Experience

Graduate Research Assistant

Under the supervision of Prof. Sundong Kim

DataScience Lab, GIST, South Korea

Sep. 2025 - Present

- Topics: Abstraction and Reasoning Corpus, Reinforcement Learning, Large Language Models

Undergraduate Research Assistant

Under the supervision of Prof. Majid Nili

University of Tehran, Iran

Jan. 2023 - Jul. 2024

- Explored the application of **transfer learning** to improve the efficiency of **reinforcement learning** by leveraging **large language models**. The research focused on using these models to identify similarities and differences between previous knowledge and new tasks, facilitating more effective learning transfer. Experiments demonstrated that large language models could significantly reduce the learning time and enhance decision-making processes, leading to improved performance in reinforcement learning scenarios.

Undergraduate Research Assistant

Under the supervision of Prof. Azadeh Shakery

University of Tehran, Iran

Jul. 2022 - Jun. 2023

- Developed a **hate speech detection** model by integrating **GCN (Graph Convolutional Networks)** with **BERT**, utilizing a heterogeneous graph for document classification. The research, informed by a thorough literature review, successfully optimized graph relationships for improved accuracy.

Undergraduate Research Assistant

Under the supervision of Prof. Behnam Bahrak

University of Tehran, Iran

Aug. 2021 - Dec. 2022

- Created a hybrid **consensus protocol** combining **proof of stake (PoS)** and **proof of activity (PoA)**. This work, grounded in extensive study of similar protocols, effectively leveraged the benefits of both PoS and PoA.

Publications

- S. Kamali, S. Shabihi, M.T. Fakharian, A. Arbabi, P. Tajmehrab, M. Saadati, & B. Bahrak (2023). **"RPPoA: Redefined Proof of Activity"**. Submitted to *The Institution of Engineering and Technology (IET)*.

Teaching Experience

University of Tehran

- **Teaching Assistant** Data Science 🌐 - Prof. B. Bahrak, Prof. Y. Yaghoobzadeh Spring 2024
- **Teaching Assistant** Reinforcement Learning (Master's course) - Prof. M. Nili Fall 2023
- **Teaching Assistant** Artificial Intelligence - Prof. Y. Yaghoobzadeh, Prof. H. Fadaei Spring 2023, Fall 2023
- **Teaching Assistant** Data Mining (Master's course) - Prof. A. Shakery Spring 2023
- **Teaching Assistant** Operating Systems - Prof. M. Kargahi Fall 2022, Spring 2023, Fall 2023
- **Teaching Assistant** Discrete Mathematics - Prof. S. Mohammadi Spring 2022, Fall 2022, Spring 2023
- **Teaching Assistant** Engineering Probability and Statistics - Prof. B. Bahrak Fall 2022
- **Teaching Assistant** Introduction to Computing Systems and Programming - Prof. H. Moradi Fall 2020, Fall 2021

Work Experience

Aban Prime Co.

Software Engineer

Tehran, Iran

Apr. 2025 - Aug. 2025


- Contributed to a dynamic crypto exchange startup by taking on diverse responsibilities across backend development and process optimization. Developed a notification center using **ASP.NET, PostgreSQL, and unit testing** to enhance user engagement and streamline communication within the platform. Improved the IRR banking deposit process by leveraging **artificial intelligence (AI) with Django, Celery, Redis, and Docker** to simplify account charging for support teams. Additionally, automated banking information delivery for IRR and AED deposits to overcome various banking account limitations.

Pars Jahd Green Technologies Co.

Software Engineer

Tehran, Iran

Mar. 2024 - Mar. 2025

- As a back-end developer, I implemented a web-based platform for securely managing personal health records. Utilizing **Python** and the **Django** framework, I developed the core functionalities and advanced features, integrating **MySQL** and **PostgreSQL** databases. I also employed tools such as **Celery, unit testing, Docker, CI/CD pipelines**, and **OAuth** for secure authentication. My work ensures seamless data management, enhances doctor-patient interactions, and supports accurate diagnoses through comprehensive record-keeping. [Platform Website 

Honors & Awards

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| • Received Korean Government Scholarship, Gwangju Institute of Science and Technology (GIST) | 2025 |
| • Received scholarship, Supporter Foundation of the University of Tehran | 2019 |
| • Ranked Top 0.2% in Konkour, Iranian University Entrance Exam among 150666 participants | 2019 |

Coursera Certifications

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| • Reinforcement Learning Specialization | • Mathematics for Machine Learning Specialization |
| • Natural Language Processing Specialization | • Statistical Inference |
| • Applied Text Mining in Python | • Generative Adversarial Networks (GANs) Specialization |
| • Text Retrieval and Search Engines | • Machine Learning Engineering for Production (MLOps) Specialization |
| • Text Mining and Analytics | • Practical Data Science on the AWS Cloud Specialization |
| • Machine Learning Specialization | • Google Data Analytics Professional Certificate |
| • Deep Learning Specialization | |

Professional Developments

Crystalline

A cryptocurrency Powered by a Redefined POA Protocol

University of Tehran, Iran

Aug. 2021 - Sept. 2022

- Developed as a proof of concept on pure Python, this **cryptocurrency** incorporates a newly defined **proof of activity (PoA)** as its primary **consensus protocol**. It was designed and researched by me and several other students at the University of Tehran.

Workshops

Teaching Assistance Training

A three-hour workshop held by the School of Electrical and Computer Engineering, [Certificate 

Nov. 2022

University of Tehran

Skills

Programming: Python, C++, C, C#, Java, Go, SQL, Verilog, R

Frameworks & Libraries: Django, ASP.NET, NumPy, Pandas, Scikit-Learn, TensorFlow, Keras, PyTorch, NLTK

Tools & DB: Git, L^AT_EX, Makefile, Jupyter, Docker, Kubernetes, Maven, JUnit, MySQL, PostgreSQL, MongoDB, Redis

Software Engineering: Design Patterns, Object-Oriented Design, Agile, Scrum, CI/CD

Web Development (Familiar with): HTML, CSS, JavaScript, Bootstrap, Tomcat, Spring, React

Operating System: Linux(Ubuntu), Windows

Languages: Persian(Native), English(Fluent) - IELTS Academic: Overall 6.5 [L:6, R:7, W:6.5, S:6] (Sep. 2023) 

Interests & Hobbies: soccer, fitness, music, computer games, books.