

Hamid Nemati

[in Hamid Nemati](#) | [✉ nemati.hamid.1998@gmail.com](mailto:nemati.hamid.1998@gmail.com) | [🌐 hamid-nemati.github.io](https://github.com/hamid-nemati)

Research Interests

I am broadly interested in:

- AI in Finance and Economics
- Reinforcement Learning
- Natural Language Processing
- Data Analytics
- Fintech

Education

M.Sc., Computer Science, University of Tehran 2021
(UT is the most Prestigious and the most Entrepreneurial university in Iran)

- Total GPA: 19.2/20 (4/4)
- 1st Rank for 3 Semester in a row

B.Sc., Computer Engineering, Isfahan University of Technology 2016
(IUT is one of the most prestigious and the most non-indulgent university in Iran with lowest Average GPA)

- Total GPA: 15/20 (3.2/4)

National Organization for Development of Exceptional Talents 2012
DIPLOMA IN MATHEMATICS AND PHYSICS DISCIPLINE

- Total GPA: 20/20 (4/4)

Papers

“Improving Market Neutral Strategy with Reinforcement Learning and Learning to Rank Algorithms” with Sasan Barak (Working Paper)

“Enhancing Bitcoin Trend Forecasting by Incorporating Technical Analysis Tools into Chart Images” with Sasan Barak (Working Paper)

“Optimizing Miner Profit using Game Theory Optimization Methods and Deep Learning-based Financial Time Series Forecasting” with Kian Faroughi & Amir Hossein Nikoofard (Submitted)

“Leveraging Multi-Representation Neural Network for Improving Financial Time Series Regression” with Ahmad Kalhor (Submitted)

“Effect of Charting Technique Images on Cryptocurrency Trend Forecasting” with Ahmad Kalhor (Working Paper)

“Persian-Fin-BERT: Persian Financial News Sentiment Analyzer” with Ahmad Kalhor (Working Paper)

“Improving Reinforcement Learning Auto-Trader Performance with Chart Image” with Ahmad Kalhor (Working Paper)

Awards and Honors

Created the largest Image dataset in timeseries forecasting 2023

1st Rank for 3 Semester in a row in UT 2023

Head of Stock Market Framework Team In UT 2022

Ranked in top 0.1% in Konkur, MS Degree Entrance Exam, About 12,000 participants in Iran 2021

Ranked in top 0.5% in Konkur, BS Degree Entrance Exam, Of all 148,429 participants in Iran 2016

	IUT Full Scholarship, as an exceptional talent	2016
	1 st Rank for 4 years in a row in national organization for development of exceptional talents	2015
	Scoring over 140 on IQ test	2012
	1 st Rank for 3 years in a row in middle school	2011
Teaching Assistantship	Statistical Inference, TA, Prof. Mohammadreza Abolghasemi Dehaqani, UT	2023-2
	Machine Learning, TA, Prof. Saman Harati-Zadeh, UT	2023-2
	Neural Network, TA, Prof. Ahmad Kalhor, UT	2023-2
	Advanced Algorithms, Chief TA, Prof. Hesham Faili, UT	2023-2
	Natural Language Processing, TA, Prof. Hesham Faili	2023-1
	Neural Network, TA, Prof. Ahmad Kalhor, UT	2023-1
	Statistical Inference, TA, Prof. A.H. Vahabi, UT	2023-1
	Statistical Inference, TA, Prof. Behnam Bahrak, UT	2022-2
	Digital Logic Circuits and Design, Prof. Nader Karimi, IUT	2017-2
	Advance programming lab, C++	2017-2
Work Experience	AI Team Lead , (Company: Basilica Finance) (Duration: 5 Months)	2024
	NLP Developer , (Company: Saman Salamat) (Duration: 12 Months)	2023
	ML Developer , (Company: TenSurf) (Duration: 18 Months)	2020-22
	Data Science Intern , (Company: Sharif Data Analytics) (Duration: 4 Months)	2019
	Full Stack Developer , (Freelancing)	2018-20
	Network Administrator Help Desk , (Company: HiWEB) (Duration: 10 Months)	2017-18
Research Experience	Graduate Research Assistant at University of Tehran	2022
	Under supervision of Prof. Hesham Faili and Prof. Masoud Asadpour and Prof Ahmad Kalhor	
	<ul style="list-style-type: none"> • Manger of Stock Market Auto-Trade Platform Team • Stock Time Series Forecasting Using Chart Image • Auto-Trading with Reinforcement Learning • Summarizing and Teaching Surveys and Recent Papers Content To The members of Our Team • Creating Tutorial on Stock Forecasting Fundamentals and necessary time series libraries for New Members of Our Team. • Financial News Sentiment Analysis For https://8tag.ir/ <ul style="list-style-type: none"> – Web Crawling News – Crowd Sourcing Labels – Training And Deploying NLP Models • Supervising Undergraduate Students Thesis 	
	Member of NLP Study Group	
	Under supervision of Prof. Yadollah Yaghoobzadeh	2022
	<ul style="list-style-type: none"> • Summarizing and Teaching Surveys and Recent NLP Papers 	
	Undergraduate Research Assistant at Isfahan University of Technology	
	Under supervision of Prof. Masoud-Reze Hashemi and	2019
	<ul style="list-style-type: none"> • Hidden Markov Models, Part of Speech tagging with Forward-Backward, Viterbi and Baum-Welch Algorithm and boosting its performance by adding lexical regular expressions 	
	Undergraduate Research Assistant at Isfahan University of Technology	2018
	Under supervision of Prof. Majid Nabi	
	<ul style="list-style-type: none"> • The Effect of social media on teenagers and its relation with ADHD 	

Skills	Automated / Algorithmic Trading Natural Language Processing Data Science Data Engineer Network+ Teamwork Generative AI
Language	Persian – Native language Kurdish – Native language English – Fluent (TOEFL Test score: 103/120, Speaking: 24, Writing: 27) Spanish – Beginner German – Beginner
References	Sasan Barak, S.Barak@soton.ac.uk Hesham Faili, hfaili@ut.ac.ir Ahmad Kalhor, akalhor@ut.ac.ir Behnam Bahrak, Bahrak@ut.ac.ir Masoud Asadpour, asadpour@ut.ac.ir