

Hamid Moradi Kamali

Research Assistant at IUST
MSc in Software Engineering, Iran University of Science and Technology

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EDUCATION

•Master of Science in Software Engineering

2021-2023

School of Computer Engineering, Iran University of Science and Technology, Iran, Tehran

GPA: 16.52/20

- Thesis: Improving Trading Algorithms Performance in the Cryptocurrency Market with Explainable Textual Data Analysis.
- Project: Developed an intelligent AI-based trading assistant (Finbright).
- Research assistantship under the supervision of Dr. Entezari-Maleki.

•Bachelor of Science in Computer Engineering

2017-2021

Department of Engineering, Lorestan University, Iran, Khorramabad.

Overall GPA: 14.68/20, Last 2 Years: 15.85/20

- Final Project: A Face Recognition System Utilizing Cascade Classifiers.

RESEARCH EXPERIENCE

•Research Project at Iran University of Science and Technology

School of Computer Engineering

Under the supervision of Dr. Sauleh Eetemadi

Jan 2023

- Collaborated with a team of talented and hardworking colleagues in researching stock market dynamics through deep learning context (actively participated in writing and experimentation).
- Co-authored a scientific paper titled "Stock Market Dynamics Through Deep Learning Context" currently under submission.
- Developed a novel feature matrix incorporating Twitter content and market historical data for binary classification and one-step-ahead prediction.
- Improved prediction accuracy compared to existing benchmark methods by utilizing the proposed feature matrix.
- Employed the Lime interpretation technique to provide an illustrative summary of the driving factors in the market.
- Conducted an interpretation study that identified the volume of tweets as the most important factor driving market movements.
- Demonstrated that the proposed feature matrix covers a broad range of market driving factors, outperforming benchmark methods.

•Research Assistant at Iran University of Science and Technology

School of Computer Engineering

Under the supervision of Dr. Entezari-Maleki

Mar 2023

- Constructing a new sentiment index to improve investor sentiment representation.
- Utilizing interpretable sentiment analysis of financial social media content to predict cryptocurrency market behavior.
- Collaborating with Dr. Entezari-Maleki, actively participating in research discussions and implementation decisions.

Areas of Interest: Natural Language Processing, Financial Forecasting, Interpretable/Explainable DL, Social Media Analysis

TEACHING EXPERIENCE

•Trading Algorithms Teaching Assistant

Undergrad Course

At Iran University of Science and Technology

First Semester of 2023-2024

- grading student projects and assignments
- Participated in designing and grading projects regarding time-series analysis, portfolio optimization, and algo trading

PROFESSIONAL EXPERIENCE

•Team Lead at Iran University of Science and Technology

Nov 2022 - Nov 2023 (1 year)

Tehran, Iran

- Led a team of graduate and undergraduate students in developing Finbright, an intelligent AI-based assistant for traders and investors in cryptocurrency markets.
- Applied machine learning and deep learning techniques to provide a production-level software platform.
- Assembled a distributed cluster of servers tailored to our specific deployment and machine learning requirements in our lab.
- Designed and implemented a social media sentiment analysis pipeline to predict market volatility in real-time

•Chairman & Chief Technology Officer at Kahroba Creative Software Company

Oct 2019 - Jan 2022 (2 years 4 months)

Tehran, Iran

- Co-founded Kahroba Creative Company, aiming to provide reliable software solutions for businesses.
- Acted as the CTO, overseeing the technical aspects of the company's operations and projects.
- Led and mentored a team of developers, fostering a collaborative and high-performing work environment.

•Co-Founder & Software Engineer at Fitex Application

Jan 2018 - Oct 2021 (3 years 10 months)

Lorestan, Iran

- Developed a highly efficient video streaming system using gRPC, delivering fast and seamless streaming experiences.
- Overcame business and marketing challenges, contributing to the application's growth and customer acquisition.
- Presented the Fitex Application at the INOTEX 2020 Exhibition, showcasing its features and benefits to a diverse audience.

•Co-Founder & Software Engineer at 3-Tour Startup

Sep 2020 - May 2021 (9 months)

Lorestan, Iran

- Utilized expertise as a software engineer with business development skills to create software solutions that simplified travel agency operations.
- Built a robust web application using Typescript and Node.js to enhance efficiency for partner agencies.
- Negotiated contracts and promoted software, expanding the client base to multiple traveling agencies.

•Full Stack Engineer at Halyab

Mar 2020 - Aug 2020 (6 months)

Lorestan, Iran

- Redesigned and implemented the web application of the question-answering platform, expanding its features and improving user engagement.
- Created a user-friendly website with optimal performance using Next.js and Python Django.
- Received recognition at the Iran Web and Mobile Festival for exceptional website design.

•Back End Developer at Q Company

Mar 2017 - Sep 2018 (1 year 7 months)

Lorestan, Iran

- Reengineered the Goftare platform, a startup providing online therapy, to improve efficiency, speed, and code readability.
- Transformed the backend architecture from a monolithic to a service-oriented architecture (SOA), improving scalability and maintainability.
- Collaborated closely with the development team, implementing Agile methodologies such as Scrum for effective teamwork and management.

•Software Development Intern at Q Company

Jan 2017 - Mar 2017 (3 months)

Lorestan, Iran

- Gained hands-on experience in software development, learning essential skills including Scrum, Git, JavaScript, Node.js, and MongoDB.

TECHNICAL SKILLS AND INTERESTS

Languages: Go, Python, Javascript, Typescript, C++

Libraries : Pytorch, Tensorflow, Pandas, Scikit-learn, Numpy, NLTK, Scipy

Web Dev Tools: Node.js, Django, React.js, Vue.js, Next.js, Gatsby.js

Databases: MongoDB, PostgreSQL, Redis

Message Queue: Apache Kafka, RabbitMQ

Deployment: Docker, Docker Swarm, Gitlab CI, GitHub Actions

Communication Protocols: REST API, Websockets, gRPC

Software Development Methodologies: Agile, Scrum, Kanban

Soft Skills: Team Management, Public Speaking, Self Learning

COURSES AND CERTIFICATIONS

• Natural Language Processing Specialization - DeepLearning.AI	<i>Jan 2024</i>
– Transformers, Attention Models, Word Embeddings, Sequence Models	
• Mathematics for Machine Learning: Multivariate Calculus - Imperial College London	<i>Aug 2023</i>
– Multivariate Calculus, Gradient Descent, Regression Models	
• Writing in the Sciences - Stanford Online	<i>Jul 2023</i>
– Writing, Scientific Writing, Grant Writing	

ACHIEVEMENTS

• Ranked 227 Out of Nearly 10000 CS Students- Iran CS Konkur (Masters Entrance Exam)	<i>2021</i>
• Best Website Design Nomination for Halyab - Iran Mobile and Web Festival 2020	<i>2020</i>

LANGUAGE PROFICIENCY

English (IELTS)	Overall: 8.0 Speaking: 7.0 Writing: 7.0 Reading: 9.0 Listening: 9.0
Farsi	Native

REFERENCES

Dr. Reza Entezari-Maleki	Position: Assistant Professor Institution: Iran University of Science and Technology Email: Entezari@iust.ac.ir
Dr. Saeed Parsa	Position: Professor Institution: Iran University of Science and Technology Email: Parsa@iust.ac.ir
Dr. Mohammad Bagher Dowlatshahi	Position: Associate Professor Institution: Lorestan University Email: Dowlatshahi.mb@lu.ac.ir