

Hamid Moradi Kamali

Software Engineer & PhD Scholarship Applicant
MSc in Software Engineering, Iran University of Science and Technology

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EDUCATION

- **Master of Science in Software Engineering** 2021-23
School of Computer Engineering, Iran University of Science and Technology GPA: 3.5/4
 - Thesis Title: *Improving Trading Algorithms Performance in the Cryptocurrency Market with Textual Data Analysis.*
 - Project: *Finbright (Intelligent AI-Based Trading Assistant)*
- **Bachelor of Science in Computer Engineering** 2017-2021
Department of Engineering, Lorestan University, Iran, Lorestan. GPA: 3.14/4

RESEARCH EXPERIENCE

- **Research Project, Iran University of Science and Technology** *School of Computer Engineering*
Under the supervision of Professor Sauleh Eetemadi Jan 2023
 - Collaborated with a team of talented and hardworking colleagues in conducting research on stock market dynamics through deep learning context.
 - 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.
 - Achieved 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.
 - Contributed as the third author in the paper, actively participating in data analysis, experimentation, and writing.
- **Research Assistant, Iran University of Science and Technology** *School of Computer Engineering*
Under the supervision of Dr. Reza Entezari Maleki Mar 2023
 - Conducting research on optimizing trading algorithms in the cryptocurrency market using textual data analysis.
 - Project focuses on utilizing interpretable sentiment analysis of financial social media content to predict cryptocurrency market behavior.
 - Aim to improve trading algorithms' performance by incorporating NLP techniques and financial market analysis.
 - Title of the research project: "Optimizing Trading Algorithms in the Cryptocurrency Market with Textual Data Analysis."
 - Currently in the implementation phase, working towards developing and fine-tuning the necessary models and algorithms.
 - Research interests encompass natural language processing (NLP) and financial market analysis.
 - Actively collaborating with Dr. Reza Entezari Maleki, actively participating in research discussions and implementation decisions.

Areas of Interest: Interpretable Sentiment Analysis, Natural Language Processing, Financial Market Analysis

TEACHING EXPERIENCE

- **Teaching Assistant, Iran University of Science and Technology** 2022-2023
Course: Trading Algorithms
 - Assisted in grading student projects as a Teacher Assistant in the Trading Algorithms Graduate Course taught by Dr. Reza Entezari Maleki.
 - Presented my work on sentiment analysis during one session of the course.
 - Held this position for two semesters.

PROFESSIONAL EXPERIENCE

•Team Lead at Iran University of Science and Technology

Nov 2022 - Present (10 months)

Tehran, Iran

- Led a team of six master's students to develop 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.

•Co-Founder & 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.

•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: Golang, Python, Javascript, Typescript, C++

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

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

Frameworks: Express.js, Django Rest Framework

Databases: MongoDB, PostgreSQL, Redis

Message Queue: Apache Kafka, RabbitMQ

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

Communication Protocols: REST API, GraphQL, Websockets, gRPC

Software Development Methodologies: Agile, Scrum, Kanban

Soft Skills: Team Management, Presentation, Self Learning

COURSES AND CERTIFICATIONS

- **Natural Language Processing with Classification and Vector Spaces** - DeepLearning.AI *Sep 2023*
Skills Learned: NLP
 - Multivariate Calculus, Gradient Descent, Regression Models
- **Mathematics for Machine Learning: Multivariate Calculus** - Imperial College London *Aug 2023*
Skills Learned:
 - Multivariate Calculus, Gradient Descent, Regression Models
- **Writing in the Sciences** - Stanford Online *Jul 2023*
Skills Learned:
 - Writing, Scientific Writing, Grant Writing

ACHIEVEMENTS

- **Ranked 227 Out of Nearly 10000**- Computer Science Master's Degree Konkur (Entrance Exam) *2021*
- **Nominated for Best Website Design (Team Award)**- Iran Mobile and Web Festival *2020*

LANGUAGE PROFICIENCY

English	IELTS Overall: 8.0
	Speaking and Writing: 7.0
	Listening and Reading: 9.0
Farsi	Native Speaker

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 of Computer Science
	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