Hamid Mahmoodabadi

Machine Learning Engineer, Data Scientist

📍 Tehran, Iran

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✉ MahmoodabadiHamid@gmail.com

✈ Telegram Channel Contributing to the field since 2017

in Linkedin Profile

⊙ Github Account

☻ Born 29st July 1993

Personal Summary

Experienced machine learning engineer interested in AI field, delivering innovative solutions, and staying at the forefront of industry trends. Committed to contributing to data-driven decision-making in a dynamic, forward-thinking team.

Technical Skills:

- NLP, Computer Vision, Time Series Analysis
- Model Evaluation and Hyperparameter Tuning
- Feature Engineering and Data Preprocessing
- Programming Languages: Python
- Machine Learning Frameworks: PyTorch, TensorFlow, Scikit-Learn
- Data Manipulation: Pandas, NumPy
- Deep Learning: Neural Networks, CNNs, RNNs, LSTM, GRU, Transformers
- Natural Language Processing: NLTK, SpaCy
- Data Visualization: Matplotlib, Seaborn, Plotly, Dash, Bokeh
- Big Data Tools: Spark
- Version Control: Git, GitHub
- SQL Databases: MySQL, Sqlite, Sqlserver
- A/B Testing and Experimentation

Team Work Skills:

- Project management and team workspace tools: Jira, Trello
- Team leadership and talent development
- Effective communication and conflict resolution
- Cross-functional collaboration
- Outcome-oriented mindset and decision-making
- Change management and process improvement
- Time management and prioritization
- Building trust and fostering a positive team culture
- Technical talent assessment and candidate screening
- Conducting interviews and evaluating technical skills
- Collaborative decision-making in hiring processes

EDUCATION

2016 – 2018

MSc: Computer Science - **Artificial Intelligence**

MSC Department | Allameh Tabataei University, Tehran, Iran

- GPA: 16.5/20
- Thesis: *Sentence-based Sentiment Analysis using Deep Recursive Tensor Neural Networks approach (Supervisor: Dr. Farzad Eskandari). [Link to PDF]*

2012 – 2014

BSc: **Computer Software Engineering**

Computer Engineering Department | Shahab Danesh University, Qom, Iran

- GPA: 16.4/20
- Final project: *Designing and Implementing Online Shopping Website from Scratch (Supervisor: Dr. Amin Ghazizahedi).*

Interests

Machine Learning   NLP   Data Visualziation   Computer Vision

Publications and Research Experiences

Accepted by Springer *(To be Published)*	**Uber's Contribution to Faster Deep Learning, A Case Study in Distributed Model Training** **Chapter in the Book:** *Advances in Data Clustering: Theory and Applications* **Publisher:** *Springer* **Author:** *Hamid Mahmoodabadi* [Link to Draft]
Under ACL Rolling Review	**PSA43K: A Fine-Grained Persian Sentiment Analysis Dataset** **First Author:** *Hamid Mahmoodabadi*[Link to Preprint] **Co-Author(s):** *Leila Afsar* **Supervisor:** *Ahmed M. Abdelmoniem, Queen Mary University of London*
2017(July)	**Evaluation the Effect of the Dimension Reduction on the Performance of Linear and Non-linear Classifiers** **The Second Annual Conference on Applied Research in Computer and IT Engineering** **First Author:** *Hamid Mahmoodabadi*[Link to Paper] **Supervisor:** *Mohammadreza A. Oskoei, University of Essex*
2023(July)	**Glossary of Data Science and Machine Learning Terms** **Github Repository** **Author:** *Hamid Mahmoodabadi*[Link to Repository]
2019 – 2019 (6 Mon)	Research in Finance *Machine Learning Research Engineer* | *Department of Economics and Management, Sharif University of Technology, Tehran, Iran* • Creating a Model to Predict Time Series Data for 10 stock market shares • *Tools: Pytorch + Numpy + RNN(Recursive NN)*

WORK EXPERIENCE

2021 (Aug) – present	Securities and Exchange Organization of Iran *Machine Learning Engineer* | *Securities and Exchange Organization of Iran, Tehran, Iran* • **Finding abnormal orders** through the development of a Deep Learning solution • **Recognizing Rumors** about the Stock Market in Social Media using their publishing network • **Fine-tuned LLM** to develop a CRM-focused chat-bot based on previous question answers • Developed a high-speed, web-based **data visualization** dashboard for efficient analysis and decision-making for upper managers and more than 1,000 users • Created **real-time social media monitoring dashboard** for swift tracking of stock market trends • *Tools: **Python, Pytorch, FAISS, LangChain, Pyspark, Dash, Plotly, Flask, NLTK, Numpy, Pandas, multi-threading***

2020 (Jul) – present	**NemadBinBot**
	*Founder & Full-Stack Developer with Machine Learning Expertise	Sharif University of Technology, Tehran, Iran*

- Design and implement a solution for the **conversion of Natural Persian Language Requests Into SQL Queries** using Natural Language Processing (NLP) techniques
- Designed and implemented **innovative software architectures** to enhance system efficiency and scalability.
- Designed and implemented a **high-performance MySQL database** capable of handling high-frequency read-write operations, ensuring data integrity and reliability.
- Developed a **high-speed web crawler** with advanced features, optimizing data extraction and storage processes for efficient and rapid data retrieval.
- **Analyzed user activity logs** and leveraged insights to iteratively enhance application usability
- Achieved **fantastic teamwork** and successfully attracted more than 10,000 users to the platform
- *Tools: **Python, Pytorch, TelegramBot, Mysql, NLTK, Plotly***

2017 – 2021 (3 Years 7 Mon)	**Taha Startup Studio**
	*Machine Learning Engineer (NLP)	Sharif University of Technology, Tehran, Iran*

- **Development of Basic NLP Tools** in both Persian and English Language
- **Lead a team** to Produce a Persian Sentiment Analysis Dataset (More than 43,000 sentences with 5 class tags)
- **Sentiment Analysis** Developer With the Dataset
- Tools: *Python, Pytorch, TelegramBot, LSTM, GRU*

Machine Learning Engineer (Image Processing)

- Create an Agent to Play Video Games
- Preprocessed input images and selected **CNN architecture**
- **Optimized hyperparameters**
- Applied data augmentation
- Optimized **model performance**
- *Tools: **Image Processing (Pytorch, Pygame)***

2016 – 2017 (1 Years 3 Mon)	**Sibe Sorkh**
	*Co-founder and Developer	Mathematics and Computer Science Department, Allameh Tabataei University, Tehran, Iran*

- Develop a **Pipeline** to Crawl, Clean, and Analyze Data From Web (more than 10.000 rows was been saved every day)
- *Tools: **Python, Scrapy, Requests, Selenium, BeautifulSoup, UrlLib***

2012– 2015 (3 Years 5 Mon)	**Amin Intelliware**
	*Game Developer	Qom, Iran*

- Video game developer
- Augmented Reality programmer (ARToolkit, NYARToolkit and, Vuforia toolbox)

Language Proficiency

English (TOEFL) Score: 100
Reading: 30, Listening: 26, Speaking: 17, Writing: 27

Persian *Native*

Azeri *Professional*