

# Hamid Mahmoodabadi

**Machine Learning Engineer, Data Scientist**

📍 Tehran, Iran

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🎂 Born 29<sup>st</sup> July 1993

## Personal Summary

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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

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|-------------|---|
| 2016 – 2018 | <p><b>MSc: Computer Science - Artificial Intelligence</b></p> <p><i>MSC Department   Allameh Tabataei University, Tehran, Iran</i></p> <ul style="list-style-type: none"><li>• GPA: 16.5/20</li><li>• Thesis: <i>Sentence-based Sentiment Analysis using Deep Recursive Tensor Neural Networks approach (Supervisor: Dr. Farzad Eskandari). [Link to PDF]</i></li></ul> |
| 2012 – 2014 | <p><b>BSc: Computer Software Engineering</b></p> <p><i>Computer Engineering Department   Shahab Danesh University, Qom, Iran</i></p> <ul style="list-style-type: none"><li>• GPA: 16.4/20</li><li>• Final project: <i>Designing and Implementing Online Shopping Website from Scratch (Supervisor: Dr. Amin Ghazizahedi).</i></li></ul>                                 |

## 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	<p>NemadBinBot</p> <p><i>Founder &amp; Full-Stack Developer with Machine Learning Expertise</i>   Sharif University of Technology, Tehran, Iran</p> <ul style="list-style-type: none"> <li>• Design and implement a solution for the <b>conversion of Natural Persian Language Requests Into SQL Queries</b> using Natural Language Processing (NLP) techniques</li> <li>• Designed and implemented <b>innovative software architectures</b> to enhance system efficiency and scalability.</li> <li>• Designed and implemented a <b>high-performance MySQL database</b> capable of handling high-frequency read-write operations, ensuring data integrity and reliability.</li> <li>• Developed a <b>high-speed web crawler</b> with advanced features, optimizing data extraction and storage processes for efficient and rapid data retrieval.</li> <li>• <b>Analyzed user activity logs</b> and leveraged insights to iteratively enhance application usability</li> <li>• Achieved <b>fantastic teamwork</b> and successfully attracted more than 10,000 users to the platform</li> <li>• <i>Tools: Python, Pytorch, TelegramBot, Mysql, NLTK, Plotly</i></li> </ul>
2017 – 2021 (3 Years 7 Mon)	<p>Taha Startup Studio</p> <p><i>Machine Learning Engineer (NLP)</i>   Sharif University of Technology, Tehran, Iran</p> <ul style="list-style-type: none"> <li>• <b>Development of Basic NLP Tools</b> in both Persian and English Language</li> <li>• <b>Lead a team</b> to Produce a Persian Sentiment Analysis Dataset (More than 43,000 sentences with 5 class tags)</li> <li>• <b>Sentiment Analysis Developer</b> With the Dataset</li> <li>• <i>Tools: Python, Pytorch, TelegramBot, LSTM, GRU</i></li> </ul> <p><i>Machine Learning Engineer (Image Processing)</i></p> <ul style="list-style-type: none"> <li>• Create an Agent to Play Video Games</li> <li>• Preprocessed input images and selected <b>CNN architecture</b></li> <li>• <b>Optimized hyperparameters</b></li> <li>• Applied data augmentation</li> <li>• Optimized <b>model performance</b></li> <li>• <i>Tools: Image Processing (Pytorch, Pygame)</i></li> </ul>
2016 – 2017 (1 Years 3 Mon)	<p>Sibe Sorkh</p> <p><i>Co-founder and Developer</i>   Mathematics and Computer Science Department, Allameh Tabataei University, Tehran, Iran</p> <ul style="list-style-type: none"> <li>• Develop a <b>Pipeline</b> to Crawl, Clean, and Analyze Data From Web (more than 10.000 rows was been saved every day)</li> <li>• <i>Tools: Python, Scrapy, Requests, Selenium, BeautifulSoup, Urllib</i></li> </ul>
2012– 2015 (3 Years 5 Mon)	<p>Amin Intelliware</p> <p><i>Game Developer</i>   Qom, Iran</p> <ul style="list-style-type: none"> <li>• Video game developer</li> <li>• Augmented Reality programmer (ARToolkit, NYARToolkit and, Vuforia toolbox)</li> </ul>

## Language Proficiency

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*English (TOEFL) Score: 100*

*Reading: 30, Listening: 26, Speaking: 17, Writing: 27*

*Persian Native*

*Azeri Professional*