

Hamed Gholami

SENIOR DATA SCIENTIST

Tehran, Tehran Province, Iran

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Summary

I'm an experienced data scientist with 10+ years of experience, passionate about leveraging cutting-edge technologies to solve complex problems and drive results. I've successfully worked on a diverse range of projects, including financial market trading via AI, speech processing, text processing, NLP, and gaming server development. With expertise in a variety of languages and tools, I'm always seeking new challenges and opportunities to make a positive impact in the world.

Skills

Soft Skills	Written and verbal communication, Teamwork, Critical Thinking, Problem Solving, Creativity, Leadership
Hard Skills	Data Analysis, Data Visualization, Machine Learning, Modelling, Programming, Domain Knowledge
Programming Languages	Python, SQL, Java, C/C++, C#, JavaScript, MATLAB, BASH
Database systems	PostgreSQL, MongoDB, MySQL
Libraries and Frameworks	TensorFlow, PyTorch, Keras, Pandas, SciKit-learn, Matplotlib, Bokeh, NLTK, spaCy, Torchaudio, FastAPI, PySpark
Software Engineering	Scrum, Git, Docker, Debugging, Design Patterns
Theoretical Knowledge	Mathematics and Statistics, Algorithms and Data Structures, Digital Signal Processing(DSP), Network Science
Operating Systems	Unix Based OSs, Windows
Languages	Persian (native), English (fluent)

Work Experience

Bitex

Tehran, Iran

DATA SCIENCE LEAD

Sep. 2020 - Present (2 yrs & 10 mos)

- Led a team of data scientists and traders in developing a financial market trader bot using AI.
- Developed various trading methods, including rule-based, AI-based, and hybrid approaches.
- Created a comprehensive library (Bitpy) encompassing data engineering, feature extraction, data analysis, backtesting, model evaluation, data visualization, and trader models.
- Managed team workflow, ensuring timely delivery of project milestones and maintaining the quality of work produced.
- Played a crucial role in designing and implementing machine learning models, conducting backtests, and developing trading strategies based on market data.
- Acquired expertise in machine learning, deep learning, financial trading, team management, project planning, and effective communication.
- Technologies: Tensorflow, Keras, PostgreSQL, FastAPI, Scrum, Reinforcement Learning, Transformer, CNN and Sequence Models, OpenAI Gym

AIBOXIA Team(Freelance)

Tehran, Iran

TEAM LEAD

Mar 2018 - Present (5 yrs & 4 mos)

- Assembled and trained a team of AI developers specializing in speech processing tasks using deep learning techniques.
- Led the team in successfully completing various speech processing projects, including speech pre-processing, voice activity detection, speaker diarization, speaker recognition, keyword spotting, and speech enhancement specifically for the Persian language.
- Ensured timely project delivery by closely collaborating with the development team, meeting milestones, and adhering to budget constraints.
- Provided guidance and mentorship to team members, fostering their professional development and growth.
- Technologies: PyTorch, Torchaudio, NeMo, Pyannote, Fairseq, Docker, Transformer models, Sequence Models, DSP

Masir Information Technology

Tehran, Iran

AI DEVELOPER

May 2016 - Mar 2018 (1 yr & 11 mos)

- Acoustic source tracking project: Developed algorithms in C++ for accurate sound source localization using Particle Filters.
- Text processing project: Participated in a text processing project involving pre-processing, summarization, key phrase extraction (TextRank algorithm), and classification in Java and Python for a Persian news site.
- Text processing project: Modified Apache OpenNLP library to process Persian text for keyword extraction and summary generation.
- Virtual training software development: Contributed to the development of virtual training software using Node.js and MongoDB.
- Developed expertise in machine learning, natural language processing, software development, and agile practices.
- Technologies: C++, Java, Python, Node.js, MongoDB, NLP, NLTK, Apache OpenNLP, DSP, Acoustic tracking, Agile Development

Hasin Group

Tehran, Iran

C# DEVELOPER

Mar 2015 - May 2016 (1 yr & 3 mos)

- Developed a game server using C and MySQL: Responsible for designing and implementing game mechanics, database architecture, and server APIs.
- Programmed an optimized game bot: Utilized the min-max algorithm and other techniques to create a competitive bot, demonstrating strong analytical skills and understanding of game mechanics.
- Developed skills in C programming, database management, and game programming.
- Played a key role in the development of a successful game server, honing your programming skills and gaining experience in team collaboration and agile development practices.
- Technologies: C#, MySQL, REST API, WebSocket API, Game Theory

Training Experience

Nov 2021 - Mar 2022

Deep Learning Trainer, MAPSA HR & Training

Tehran, Iran

Sep 2020 - Nov 2020

Deep Learning Trainer, AMA Tech Center

Tehran, Iran

Education

MSc in Artificial Intelligence

Tehran, Iran

AMIRKABIR UNIVERSITY OF TECHNOLOGY (AUT)

Sep. 2012 - Feb. 2015

- GPA: 16.54/20.0
- Thesis: Multi-target Acoustic Source Localization and Tracking, supervised by Dr. Mohammad Mehdi Homayounpour
- Relevant courses: Neural Networks · Machine Learning · Speech Processing · Digital Signal Processing · Pattern Recognition

BSc in Computer Engineering

Mashhad, Iran

FERDOWSI UNIVERSITY OF MASHHAD (FUM)

Sep. 2008 - Sep. 2012

- GPA: 17.25/20.0
- Relevant courses: Algorithm Design, Operating Systems, Computer Architecture, Software Engineering, Computer Networks

Extracurricular Activity

FUM Programming Club

Mashhad, Iran

SCIENTIFIC COMMITTEE MEMBER

Sep. 2011 - Aug. 2012 (11 months)

- Held tutorial sessions on algorithms and programming techniques.
- Wrote and picked problems for local contests.
- Held seminars to introduce freshmen to competitive programming.

Personal Interests

- Tennis, Swimming, Football, Outdoor Activities, Science Communication, Problem-Solving Games or Puzzles, Entrepreneurship

Honors

2012 **1st Place**, FUM AI Game Programming Challenge

Mashhad, Iran

2011 **3rd Place**, FUM AI Game Programming Challenge

Mashhad, Iran