Mohammad Mazaheri

Data Scientist · ML Engineer

Iran - Isfahan/Tehran

+98-916 236 4336 | msaxmsa@gmail.com | xmsa | xmsa

Personal Profile

I hold a Master's degree in Computer Science with a specialization in Artificial Intelligence, focusing on Machine Learning and Graph Processing, particularly within pharmaceutical applications. I commenced my programming journey in 2016 with C++ and C#, subsequently attaining professional proficiency in Python. I possess practical experience in machine learning, deep learning, computer vision, and large language models (LLMs), complemented by an intermediate proficiency in prompt engineering. Through the application of FastAPI, Git, Docker, and CI/CD pipelines within an MLOps framework, I have successfully overseen the development and deployment lifecycle of machine learning models. Furthermore, I demonstrate strong capabilities in data visualization and analysis utilizing a range of tools. I am committed to contributing to innovative, data-centric projects in the domain of artificial intelligence.

Education

University of Isfahan — *Isfahan, Iran*

Master of Science in Computer Science (AI) — *Sep 2022 - Sep 2025*

Thesis: Evaluation Of Metapath Based Drug-Target Interaction Prediction Methods

University of Isfahan — *Isfahan, Iran*

Bachelors, Computer Science — *Oct 2016 - Jun 2021*

Bachelor's Project: Stock Price Prediction using Statistical and Machine Learning Methods

Work Experience

University of Isfahan — *Isfahan, Iran*

Teaching Assistant

- **Deep Learning** for Computer Science students — *Feb 2024 – Jul 2024*
- **Advanced Programming** for Mathematics students — *Feb 2023 – Jun 2023*
- **Artificial Intelligence** for Computer Science students — *Sep 2022 – Jan 2023*

University of Isfahan — *Isfahan, Iran*

Computer Technician — *Feb 2018 - May 2018*, *Sep 2018 - Dec 2018*

University Projects

Drug-Target Interaction Prediction Using GNNs (Master's Thesis- Github Link) — *Isfahan, Iran*

University of Isfahan — *Sep 2022 - Sep 2025*

- Developed a deep learning framework for drug–target interaction (DTI) prediction as part of the Master's thesis.
- Enhanced and integrated GNN-based models (**MHGNN-DTI**, **MHTAN-DTI**) using the **Luo dataset** from DTINet.
- Implemented preprocessing, training, validation, and deployment pipelines with **PyTorch** and **DGL**.
- **Skills:** Python, PyTorch, DGL, Graph Neural Networks, Deep Learning, Data Analysis.

Stock Price Prediction using Statistical and ML Methods (Bachelors project) — *Isfahan, Iran*

University of Isfahan — *July 2022 - Feb 2020*

- Developed a stock price prediction system using statistical and machine learning methods as the Bachelor's final project.
- Applied **ARIMA** and technical indicators (MA, MACD), alongside **CNN** and **LSTM** models for time-series forecasting.
- Implemented using **Python**, with **TensorFlow**, **Django**, and **Bootstrap** for model development and deployment.
- **Skills:** Python, ARIMA, CNN, LSTM, TensorFlow, Django, Bootstrap, Time-Series Analysis.

Snake Game (C#) – Github Link (Basic, Advanced) — *Isfahan, Iran*

University of Isfahan — *Sep 2019 - Feb 2020*

- Developed a **Snake game** in **C#** as part of the "Special Topics in Computer Science" course, featuring dynamic difficulty, scoring, and game-over logic.
- Implemented core mechanics—movement, collision detection, and food generation—using **OOP** principles in **.NET/Windows Forms**.
- **Skills:** C#, .NET, Windows Forms, Object-Oriented Programming, Problem Solving.

Password Manager (C#, SQLite) - Github Link *Isfahan, Iran*

University of Isfahan *Sep 2019 - Feb 2020*

- Developed a **Password Manager** application in **C#** using **SQLite** as part of the “Special Topics in Computer Science” course.
- Implemented secure storage and retrieval of encrypted passwords through database integration in **.NET/Windows Forms**.
- **Skills:** C#, .NET, SQLite, Windows Forms, Data Security.

Daneshjooyar (C#, SQL Server) *Isfahan, Iran*

University of Isfahan *Jan 2018 - May 2018*

- Designed and developed **Daneshjooyar**, a cross-platform educational application for Windows and Android as part of the “Software Design” course.
- Implemented user registration, course-based content access, and database synchronization between platforms.
- Developed the Windows version using **C#/.NET** and **SQL Server**, and collaborated on the Android version built with **Java/Android SDK**.
- **Skills:** C#, .NET, SQL Server, Java, Android SDK, System Analysis, Team Collaboration.

Skills

Programming Languages	Python (Advanced), C# (Intermediate), Bash scripting
Machine Learning	PyTorch(Advanced), TensorFlow(Intermediate), Scikit-learn(Advanced), Computer Vision, Large Language Models (LLMs), Prompt Engineering, AI Agents, Sequence Models, Graph Neural Networks (PyTorch Geometric, DGL, NetworkX).
Data Analysis	Pandas, NumPy, Time-series Analysis.
Data Visualization	Matplotlib, Seaborn, Plotly, Power BI (Beginner), Excel (Intermediate).
Data Engineering	FastAPI (API development), Docker, Git, Linux, Web Scraping (BeautifulSoup, Selenium), SQL (Intermediate).
ML Ops	Model Deployment with FastAPI and Docker, CI/CD Pipelines.
Soft Skills	Problem Solving & Initiative, Leadership & Team Collaboration, Time Management & Planning, Mentoring & Teaching, Adaptability & Resilience, Creativity & Innovation, Attention to Detail & Communication, Self-Learning & Continuous Improvement.

Interests

Linux	I have been using Linux since 2020, starting with Ubuntu GNOME. I enjoy exploring different distributions and customizing my system for optimal performance.
Artificial Intelligence	I have a strong interest in machine and deep learning, working on various projects and continually expanding my knowledge in this field.
Graph Networks	I am fascinated by graph networks and their applications in data analysis and artificial intelligence. I actively explore and study this area.
Drug Repositioning	I am interested in drug repositioning and currently studying its methodologies and applications to discover new therapeutic uses for existing drugs.
Reading and Books	I have a passion for reading and enjoy exploring various genres of literature, both fiction and non-fiction.

Languages

Persian	Native proficiency
English	Basic proficiency