

Mohammad Mazaheri

Iran - Isfahan

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Personal Profile

I am a master's student specializing in Computer Science with a focus on Computational Intelligence and Artificial Intelligence. My journey in programming began in 2016, where I initiated my exploration with Python and C#. Over time, I have honed my expertise in these languages, while also gaining introductory familiarity with R, C++, and Julia.

Currently, I am actively engaged in advanced studies, particularly in the fields of Data Science, Machine Learning, and Deep Learning. Concurrently, I am deeply immersed in researching Drug Repositioning, seeking to broaden my understanding and contribute to this evolving field.

In addition to my academic pursuits, I have cultivated skills in database management, web scraping, and Linux administration. Proficient in version control systems like Git, I am adept at collaborating on projects and ensuring version control integrity.

With my diverse skill set and ongoing dedication to learning, I strive to deliver exceptional performance and drive success in every project I undertake.

Education

University of Isfahan

Master of Science - MS, Computer Science (AI)

Isfahan, Iran

Sep 2022 - Current

Thesis: Prediction of Drug-Protein Interactions using deep Learning Methods

Courses:

- Algorithms Data Science: A+
- Deep Learning: A
- Advanced Artificial Intelligence: A
- Advanced theory of computation: A
- Computational Data Mining: A
- Machine Learning: B+
- Advanced Algorithms: B+

University of Isfahan

Bachelors, Computer Science

Isfahan, Iran

Oct 2016 - Jun 2021

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

Courses:

- Introduction to Programming: A+
- Advanced Programming: A+
- Introduction Cryptography: A+
- Computer Architecture: A+
- Computer Architecture: A+
- Special Topics in Computer Science: A+
- Bachelor's Project: A+
- DataBase Design: A
- Software Design: A
- Data Structure and Algorithms: B+

Work Experience

University of Isfahan

Teaching Assistant

Isfahan, Iran

Feb 2024 - Current

Course: Deep learning for Computer science students (Python, Numpy, Scikit-learn, Pytorch)

University of Isfahan

Teaching Assistant

Isfahan, Iran

Feb 2023 - Jun 2023

Course: Advanced Programming for Mathematics students (Python, Numpy, Pandas, Matplotlib)

University of Isfahan

Computer Technician

Isfahan, Iran

Feb 2018 - May 2018, Sep 2018 - Dec 2018

- Performed software troubleshooting and repair on various computer systems.
- Installed and configured Windows operating systems and specialized software applications.
- Diagnosed and resolved network issues to ensure stable and reliable connectivity.
- Provided technical support and guidance to users on hardware and software issues.
- Maintained and updated computer hardware and software inventories.

University Projects

Stock Price Prediction using Statistical and Machine Learning Methods

Isfahan, Iran

University of Isfahan

July 2022 - Feb 2020

- Developed a comprehensive stock price prediction system as the final project for the Bachelor's degree, utilizing both classical statistical methods and machine learning techniques.
- Implemented classical statistical methods such as ARIMA and technical analysis indicators like moving average and MACD, ...
- Utilized machine learning algorithms, including neural networks such as CNN and LSTM, to enhance prediction accuracy.
- Performed time series analysis to understand and predict stock price trends.
- Developed the application using Python, incorporating Django for the backend and Bootstrap for the frontend. TensorFlow framework was used for implementing neural network algorithms.
- **Technical Skills:** Python, ARIMA, Technical analysis Indicators, CNN, LSTM, TensorFlow, Django, Bootstrap.
- **Soft Skills:** Analytical Thinking, Data Analysis, Problem Solving, Project Management.

Snake game

Isfahan, Iran

University of Isfahan

Sep 2019 - Feb 2020

- Developed a Snake game using C# for the course "Special Topics in Computer Science". The game includes features such as increasing difficulty levels, scoring, and a game-over condition.
- Implemented game mechanics, including snake movement, collision detection, and food generation, with object-oriented programming principles.
- **Technical Skills:** C#, .NET, Windows Forms, Object-Oriented Programming.
- **Soft Skills:** Problem Solving, Attention to Detail, Project Management.
- **GitHub link 1 (Advanced), GitHub link 2**

Password Manager

Isfahan, Iran

University of Isfahan

Sep 2019 - Feb 2020

- Developed a Password Manager application using C# and SQLite for the course "Special Topics in Computer Science".
- Implemented database interactions with SQLite for storing and retrieving encrypted passwords
- **Technical Skills:** C#, .NET, SQLite, Windows Forms.
- **Soft Skills:** Detail-Oriented.
- **Github Link**

Daneshjooyar

Isfahan, Iran

University of Isfahan

Jan 2018 - May 2018

- Designed and developed a software application named "Daneshjooyar" for the course "Software Design". The application was built for both Windows and Android platforms.
- Implemented core functionalities including user registration and access to books and notes related to specific courses upon registration. Ensured seamless synchronization between the Windows and Android versions.
- Developed the Windows application using C# and .NET, managed the database using Microsoft SQL Server, and collaborated with team members to ensure integration with the Android application developed using Java and Android SDK.
- Utilized software development skills such as use case design, system analysis, and object-oriented design principles to create a robust and user-friendly application.
- **Technical Skills:** C#, .NET, Microsoft SQL Server.
- **Soft Skills:** Team Collaboration, Multi-platform Development, Database Management, Project Planning.

Skills

Programming Python (Pandas, PyTorch, Tensorflow, NumPy, Scikit-learn, etc.), C#.

Miscellaneous Linux, Shell (Bash/Zsh), \LaTeX , Microsoft Office, SQL, Git, Julia, R.

Soft Skills Problem-solving, Teaching, Creativity and Ideation, Perseverance, Confidence, Presentation Skills, Teamwork.

Achievements

Sep 2016 **National Winner**, Poster Design Competition

Iran

April 2021 **Certificate**, Machine Learning Workshop

Iran

Certificate,

- **Python:** Core, Beginners, Intermediate, Data Structures, Python for Data Science
- Machine Learning
- Data Science
- R
- SQL

July 2021

-Aug 2021

Sololearn

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.
Poster Design and Film Making	I have experience in designing posters and creating promotional videos, including editing and audiovisual management for events and celebrations.

Languages

Persian	Native proficiency
English	Basic proficiency