

# Mohammad Aminazadeh

B.Sc. in Computer Engineering

🏠 January 18th, 1998 | 📞 +989103539035 | ✉️ mohammad.aminazadeh98@gmail.com | 🏠 mohammad-aminazadeh.github.io  
| 🌐 github.com/Mohammad-Aminazadeh | 🎓 Google Scholar

## Education

### University of Isfahan

B.Sc. in Computer Engineering (Information Technology)

Isfahan, Iran

Sept 2016 - Sept 2021

- **GPA:** 3.84 (17.80 out of 20) for the last three years
- **Thesis Title:** Urban Segmentation and Analysis: Traffic Time Series Clustering and Weather Impact Analysis on Traffic Flows
- **Supervisor:** Dr. Fakhroddin Noorbehbahani
- **Relevant Coursework:** Final Thesis (19/20) - Advanced Programming (20/20) - Data Structures (19.80/20) - Algorithms Design (17.51/20) - Database Lab (20/20) - MATLAB Workshop (20/20) - Linear Algebra for ML (online) - Introduction to Biological Sciences (17.25/20)

## Research Interests

**Data Science - Data Mining - Machine Learning Algorithms - Bio and Social Informatics - Human-Centered AI**

## Honors

- Ranked among the top B.Sc. students of computer engineering major (Faculty of Computer Engineering, University of Isfahan, Isfahan, Iran).
- Ranked among the top 10% of mathematics candidates in the National University Entrance Exam, achieving a position of 1,760 out of 165,000.
- Ranked among the top students of Mathematics in high school of "Isfahan University of Technology".

## Publications (67 Citations)

### JOURNAL ARTICLES

A systematic review of research on cheating in online exams from 2010 to 2021  
Fakhroddin Noorbehbahani, Azadeh Mohammadi, Mohammad Aminazadeh  
*Journal of Education and Information Technologies* (Mar. 2022). 2022

### CONFERENCE PROCEEDINGS

Business Models for the Internet of Things: An In-Depth Categorization, Design and Innovation Tools, Challenges, and Solutions (Accepted)  
Fakhroddin Noorbehbahani, Mohammad Aminazadeh, Hooman Hoghooghi Esfahani, Soroush Bajoghli  
*7th IEEE International Conference on Internet of Things and Applications*, 2023, Isfahan, Iran

City Intersection Clustering and Analysis Based on Traffic Time Series  
Mohammad Aminazadeh, Fakhroddin Noorbehbahani  
*12th IEEE International Conference on Computer and Knowledge Engineering (ICCKE)*, 2022, Mashhad, Iran

## Projects

### Urban Segmentation and Analysis: Traffic Time Series Clustering and Weather Impact Analysis on Traffic Flows

University of Isfahan (B.Sc. Thesis)

Isfahan, Iran

Jan 2022 - Jul 2022

- **Supervisor:** Dr. Fakhroddin Noorbehbahani
- **Technical Fields Involved:** Big Data Mining and Analytics - Time Series Clustering and Visualization - Pattern Recognition - Correlation Analysis
- Pre-processing 13 million records of text-based data including cleaning, aggregation, and Null value estimation.
- Clustering traffic time series using K-Means to group intersection data based on similar traffic behavior, aiming to optimize traffic management.
- Investigating daily and seasonal traffic flow patterns through time series visualization.
- Correlation analysis between weather extreme conditions and traffic flows by integrating weather and traffic data.

### Financial Data Extraction and Aggregation: Web Scraping using Selenium

Personal Project

Isfahan, Iran

Jun 2022 - Aug 2022

- **Technical Fields Involved:** Data Extraction - Feature Engineering - Data Aggregation and Cleaning - Statistical Analysis
- Extracting complete financial data of 26,600 public companies from web using Selenium, each comprising 356 distinct features.
- Performing feature engineering and statistical analysis on data.

## Course Projects

University of Isfahan

Isfahan, Iran

- Autonomous Maze Navigation System: Implementing an Agent for Solving Maze Puzzles (Artificial Intelligence Project)
- Implementing a Rule-based Agent to Survive in "Wumpus World" Game (Data Structures Project)
- Genetic Algorithm Implementation using MATLAB (MATLAB Workshop Project)
- Implementation of Fundamental Data Structures from Scratch (Advanced Programming Project)

## Research Experiences

### Research Assistant (Volunteer)

University of Isfahan

Isfahan, Iran

May 2022 - Present

- **Supervisor:** Dr. Fakhroddin Noorbehbahani
- Department of Computer Engineering

### Research Assistant (Volunteer)

University of Isfahan

Isfahan, Iran

Feb 2021 - Dec 2021

- **Supervisor:** Dr. Fakhroddin Noorbehbahani
- Department of Computer Engineering

## Skills

### Programming Languages

Python, R, SQL

### Libraries

PyTorch, Scikit-learn, Pandas, NumPy, Selenium, TS-learn

### Data Analytic Tools

Tableau, Excel

### Soft Skills

Critical Thinking, Creative, Fast Learner, Management and Teamwork

## References

- **Referee 1:** Dr. Fakhroddin Noorbehbahani  
**Affiliation:** Assistant Professor at the University of Isfahan  
**Email:** noorbehbahani@eng.ui.ac.ir
- **Referee 2:** Dr. Azadeh Mohammadi  
**Affiliation:** Assistant Professor at the University of Isfahan  
**Email:** az.mohammadi@eng.ui.ac.ir  
**Gmail:** azade.mohammadi@gmail.com
- **Referee 3:** Dr. Kamal Jamshidi  
**Affiliation:** Professor at the University of Isfahan  
**Email:** jamshidi@eng.ui.ac.ir

## Language Proficiency

**English** IELTS Band Score 7.5 (Listening 8.5 - Reading 7.5 - Writing 7 - Speaking 6.5)

**Persian** Native proficiency

## Certificates and Extracurricular Activities

### General Skills of Employment and Entrepreneurship

Metaco Training Center

Isfahan, Iran

Jan 2022

### Fullstack Web Development

Metaco Training Center

Isfahan, Iran

Jan 2019

### Level 3 Swim Coaching

Swimming Federation of Iran

Tehran, Iran

Jun 2022

### Level 2 Lifeguard Certification

Life Saving and Diving Federation

Tehran, Iran

Jun 2019