Mohammad Aminazadeh

B.Sc. in Computer Engineering

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| 🐙 github.com/Mohammad-Aminazadeh | 🎓 Google Scholar

Education

University of Isfahan   *Isfahan, Iran*

B.Sc. in Computer Engineering (Information Technology)   *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)

Research Interests

Data Science - Data Mining - Machine Learning - Human-Centered Computing - Informatics

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 (66 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 (Submitted)
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   *Isfahan, Iran*

University of Isfahan (B.Sc. Thesis)   *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 traffic in text-based data sets.
- Using time series clustering to group intersection data based on similar traffic behavior, aiming to optimize traffic management strategies.
- Discovering traffic flow patterns through time series visualization.
- Analyzing the correlation between weather conditions and traffic flows by combining weather and traffic data.

Financial Data Extraction and Aggregation: Web Scraping using Selenium   *Isfahan, Iran*

Personal Project   *Jun 2022 - Aug 2022*

- **Technical Fields Involved**: Data Extraction - Feature Engineering - Data Aggregation and Cleaning - Statistical Analysis
- Collecting complete financial data from 26,600 public companies, each comprising 356 distinct features.
- Performing feature extraction and quantitative analysis on data.

Course Projects

Isfahan, Iran

University of Isfahan

- 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)

Isfahan, Iran
May 2022 - Present

University of Isfahan

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

Research Assistant (Volunteer)

Isfahan, Iran
Feb 2021 - Dec 2021

University of Isfahan

- **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 Skills

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

Isfahan, Iran
Jan 2022

Metaco Training Center

Fullstack Web Development

Isfahan, Iran
Jan 2019

Metaco Training Center

Level 3 Swim Coaching

Tehran, Iran
Jun 2022

Swimming Federation of Iran

Level 2 Lifeguard Certification

Tehran, Iran
Jun 2019

Life Saving and Diving Federation