

Mohammad M. Montazeri Hedesh

✉ mohammad.montazeri82@sharif.edu ✉ montazeriyazd1@gmail.com

in [m-montazeri](#) [m.m. montazeri](#) ☎ (+98) 990 127 9113

📍 Tehran, Iran

Education

Sharif University of Technology (SUT), Tehran, Iran

Sep. 2022 - Present

B.Sc. in **Industrial Engineering**

- Minor in **Economics**
- GPA: 17.51 / 20.0 - **Last Semester GPA: 19.02 / 20.0**
- Ranking: 17th out of 86 (overall) - **8th out of 86 (last semester)**

Malek Sabet National Exemplary High School, Yazd, Iran

Sep. 2019 - Aug. 2022

Diploma in Mathematics and Physics

- GPA: 19.76 / 20.0

Research Interests

- Operations Research modeling and optimization
- Machine Learning methods and applications
- Statistical analysis and data-driven decision making
- Programming and algorithm development with Python
- Development of decision-support systems for industrial and healthcare applications

Teaching Experience

Teaching Assistant in Econometrics

Spring 2025

Dr. Fatemeh Asghari | SUT | Graduate School of Management and Economics

Teaching Assistant in Fundamentals of Data Mining and Its Applications

Spring 2025

Dr. Mana Meskar | SUT | Industrial Engineering Department

Teaching Assistant in Advanced Programming

Fall 2023, Spring 2024

Prof. Moslem Habibi | SUT | Industrial Engineering Department

Head Teaching Assistant in Introduction to Programming Using Python

Fall 2023, Fall 2024

Mr. Alireza Kadivar | SUT | Computer Engineering Department

Teaching Assistant in Principles of Accounting and Costing

Spring 2024

Prof. Ahmad Azhang | SUT | Graduate School of Management and Economics

Selected Courses

- | | | | | | |
|-------------------------|------------|-------------------------------|------|--------------------------|------------|
| • Econometrics | 20.0 | • Machine Learning | 20.0 | • Linear Algebra | 17.6 |
| • Game Theory | (On-going) | • Advanced Programming | 18.4 | • Probability Theory | 17.0 |
| • General Economics | 19.7 | • Information Technology | 18.8 | • Operations Research I | 15.7 |
| • Engineering Economics | 18.6 | • Statistical Quality Control | 20.0 | • Operations Research II | (On-going) |

Skills

- **Programming Languages:** Python (NumPy, pandas, scikit-learn, SciPy), Stata, GAMS, \LaTeX
- **Web Development:** HTML, CSS, Flexbox, Django, Flask, WordPress
- **Software and Tools:** Microsoft Office Suite (Excel, Access, *specialization in Power BI*), Adobe Photoshop

Soft Skills

- Team Leadership
- Time Management and Task Prioritization
- Critical Thinking and Problem Solving
- Effective Communication

Related Projects

Causal Analysis of Urban Infrastructure Projects using Econometric Methods: Evaluating Metro Expansion Impacts on Property Values [\[GitHub Link\]](#)

Course Project | Econometrics | Prof. Naser Amanzadeh *Fall 2024*

- Econometric analysis of the impact of constructing Tehran Metro lines 6 and 7 on local real estate prices using Difference-in-Differences methodology.

Multivariate Time Series Analysis and Dimensionality Reduction in Global Financial Markets and Optimization Modeling and Solution Analysis in Operations Research [\[GitHub Link\]](#)

Course Project | Advanced Programming | Prof. Moslem Habibi *Spring 2023*

- Analysis and dimensionality reduction of multivariate financial time series data (Samsung and Apple stocks) using PCA and econometric models and Optimization Modeling.

Customer Segmentation and Behavioral Pattern Analysis Using Dimensionality Reduction and Unsupervised Machine Learning Methods [\[GitHub Link\]](#)

Course Project | Machine Learning | Prof. Ali Sharifi-Zarchi *Fall 2024*

- Performing customer segmentation using PCA and K-Means clustering, implemented from scratch.

Optimization of Neural Networks: A Comparative Study on Adaptive Learning Rates and Gradient-Based Methods [\[GitHub Link\]](#)

Course Project | Machine Learning | Prof. Ali Sharifi-Zarchi *Fall 2024*

- Exploring neural network optimization methods (Adaptive Learning Rates, SGD, Mini-Batch Gradient Descent) using the MNIST dataset.

Honors and Awards

Awarded 2nd place in the National Mathematics City Competition *Sep. 2018*

Hosted by Ferdowsi University of Mashhad.....

Accepted into the First Ranked University in Iran, Sharif University of Technology (SUT) *Sep. 2022*

With full tuition coverage due to a high entrance exam ranking.....

Ranked in the top 0.5% out of over 145,000 high school students *Jul. 2022*

Nationwide University Entrance Examination, Math and Physics Group.....

Job Experience

Data Analyst.....

GTC Trading Company, Yazd, Iran (On-site) *Jul. 2024 – Sep. 2024*

- Extracted and cleaned accounting data using Python for preprocessing and dataset preparation. Developed, updated, and maintained interactive Power BI management dashboards, performed detailed data analysis, and delivered data-driven insights to streamline decision-making processes and enhance organizational performance across departments. Provided regular analytical reports to senior management, facilitating informed strategic planning and operational improvements.

Volunteering Experiences

Elected Member of the Industrial Engineering Student Association, SUT *Jun. 2024 - Jun. 2025*

Received 99 votes (40% of total) and ranked third in the board elections.....

Head of Industry Relations, Faculty of Industrial Engineering Student Magazine, SUT *Sep. 2024 - Jun. 2025*

Responsible for industry-related content in each issue of the magazine.....

References

Nafiseh Sedghi

Assistant Professor

Department of Industrial Engineering,
Sharif University of Technology, Tehran, Iran

Phone: (+98) 21 66165710

Email: nafiseh.sedghi@sharif.edu

Maryam Rezapour Niari

Assistant Professor

Department of Industrial Engineering,
Sharif University of Technology, Tehran, Iran

Phone: (+98) 21 66165711

Email: maryam.rezapour@sharif.edu