

# Matin Fazel

in [matin-fazel-685531199](https://www.linkedin.com/in/matin-fazel-685531199)  
✉ [matinfazel1379@gmail.com](mailto:matinfazel1379@gmail.com)  
📍 [matinfazel](#)

## Education

### B.Sc. in Computer Engineering

Bachelor's degree program

GPA: 3.33/4.00, last 2 years GPA: 3.61/4.00

Isfahan University of Technology  
September 2019 – December 2023

### High School Diploma in Mathematics

High School

Grade: 19.37/20.00

Harati High School  
September 2016 - September 2019

## Thesis

### Data augmentation for emotions in speech using generative models

Under the supervision of Dr. Jalal Zahabi

Isfahan University of Technology  
September 2023 – January 2024

- Implemented CycleGAN using PyTorch
- Balancing an imbalanced auditory dataset

## Professional Experience

### Teaching Assistant - Machine learning

Isfahan University of Technology

September 2023 - December 2023

- Participated in research projects related to Machine Learning and Artificial Intelligence
- Led group discussions and projects, promoting collaboration and practical problem-solving

### Teaching Assistant - Computational Intelligence Laboratory

Isfahan University of Technology

July 2023 - December 2023

- Improving the infrastructure of the laboratory (setting up CCTV cameras for object detection using YOLO)
- Created exams, graded assignments, held office hours and monitored student success

### Teaching Assistant - Advanced programming

Isfahan University of Technology

February 2022 - July 2022

- Taught advanced programming (C++, data structures, algorithms, and object-oriented programming) to students.

### Software Developer

Partak System Vira

February 2022 - September 2022

Isfahan, Isfahan

- Developed software solutions in C++, NestJs, and Python for large-scale applications
- Implemented video broadcasting services using FFmpeg for media servers

### Teaching Assistant - Fundamental Programming

Isfahan University of Technology

February 2021 - June 2021

- Instructed students in a fundamental programming course, introducing core concepts of C programming and fundamental programming principles

## Languages

### English

Overall 7.0

### German

Ielts (Taken on September 6th, 2023)

L: 7.0, R: 6.5, S: 7.0, W: 6.5

Basic Knowledge

## Related Courses

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<b>Applied Linear Algebra</b>	19.0/20.0
<b>Machine Learning</b>	19.2/20.0
<b>Computational Intelligence</b>	18.4/20.0
<b>Software Engineering I</b>	18.4/20.0
<b>Software Engineering II</b>	18.5/20.0
<b>Advanced Programming and Laboratory</b>	17.7/20.0

## Online Certifications

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<b>Improving Deep Neural Networks: Hyperparameter Tuning and Optimization</b> Coursera <a href="#">Show credential</a>	August 2021
<b>Structuring Machine Learning Projects</b> Coursera <a href="#">Show credential</a>	August 2021
<b>Neural Networks and Deep Learning</b> Coursera <a href="#">Show credential</a>	July 2021

## Projects

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<b>Media Server for broadcasting media streams</b> <a href="#">GitHub Repository</a> <ul style="list-style-type: none"><li>Implemented real-time encoding and decoding mechanisms to convert images to raw data for transmission</li><li>Developed the server-side software entirely in C++ to leverage its performance and memory management capabilities</li></ul>	August 2022 – September 2022
<b>Google Doodle image dataset classification</b> <a href="#">GitHub Repository</a> <ul style="list-style-type: none"><li>Implemented convolutional neural networks in Tensorflow</li><li>Designed a user interface for drawing pictures</li></ul>	June 2022 – August 2022
<b>Twitter analyzer</b> <a href="#">GitHub Repository</a> <ul style="list-style-type: none"><li>Collected related tweets of a popular football match</li><li>Illustrated the relevant data</li></ul>	March 2021

## References

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### Dr. Mehran Safayani

Associate Professor

✉ [safayani@iut.ac.ir](mailto:safayani@iut.ac.ir)

### Dr. Jalal Zahabi

Assistant Professor

✉ [zahabi@iut.ac.ir](mailto:zahabi@iut.ac.ir)

### Dr. Shirin Bagholizadeh

Assistant Professor

✉ [baghoolizadeh@iut.ac.ir](mailto:baghoolizadeh@iut.ac.ir)