

# Maryam Saeidmehr

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Last Update: October 18, 2022

## EDUCATION

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### Isfahan University of Technology

*B.Sc. in Computer Engineering; GPA: 17.96/20 (3.84/4)*

Isfahan, Iran

*Sep 2017 – Feb 2022*

### National Organization for Development of Exceptional Talents

*Diploma in Mathematics and Physics; GPA: 19.96/20 (4/4)*

Isfahan, Iran

*Oct 2013 – Jun 2017*

## RESEARCH INTERESTS

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Medical image analysis, Computer vision, Deep learning, Machine learning

## RESEARCH EXPERIENCE

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### Isfahan University of Technology

*Undergraduate Research Assistant*

Isfahan, Iran

*Sep 2021 – Aug 2022*

- Supervisor: Prof. Shadrokh Samavi
- Worked on Diagnosis of Covid-19 using CT scan images and Convolutional Neural Network based on DenseNet121 architecture

## WORK EXPERIENCE

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### Zamin Company

*Software Engineer intern*

Isfahan, Iran

*Jun 2021 – Aug 2021*

- Worked as a software engineer at Zamin company to develop an E-Commerce website

## TEACHING EXPERIENCE

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### Compiler

*Teaching Assistant*

Isfahan University of Technology

*Jan 2022 – May 2022*

### Databases I

*Teaching Assistant*

Isfahan University of Technology

*Jan 2021 – May 2021*

## NOTABLE COURSES

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|--|-------------------------------------|
| • Fundamentals of Machine Learning (17.5/20) | • Engineering Mathematics (17.5/20) |
| • Artificial Intelligence (18.34/20)         | • Differential Equation (18/20)     |
| • Applied Linear Algebra (18.7/20)           | • Discrete Structures (19.4/20)     |
| • Signals and Systems Analysis (17.3/20)     | • Data Structures (20/20)           |
| • Multimedia Systems (17.1/20)               | • General Mathematics I (19/20)     |
| • Compiler (20/20)                           | • General Mathematics II (19.5/20)  |
| • Databases I (19/20)                        | • Game Theory (18.2/20)             |

## AWARDS & ACHIEVEMENTS

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|---|-------------|
| <b>Ranked 9th</b> Among 90 Undergraduate Students in Computer Engineering Department, Isfahan University of Technology  | 2017 – 2022 |
| <b>Ranked within the top 1%</b> in 'National Entrance Exam for B.Sc Studies' in Iran Among More Than 148,000 Students in the Field of Mathematics and Physics | Aug 2017    |

## SKILLS

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### Language:

- Persian (Mother Tongue)
- English (Foreign Language)

### Programming:

- Proficient in C, C++, Python
- Familiar with MATLAB, R

### Frameworks & Libraries:

- AI related: Tensorflow, Keras, NumPy, Scikit-Learn, Pandas
- Image Processing: OpenCV

**Operating System:** Linux (Ubuntu, Kali), Windows

## PROJECTS

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### COVID-19 Detector Based on Deep Learning Techniques | [GitHub](#)

- A deep learning model using convolutional neural networks (CNN) based on DenseNet121 architecture to detect Covid-19 from CT images.
- This model has also deployed into a Django-Reactjs web application.

### Image Watermarking in DCT Domain | [GitHub](#)

- A MATLAB project that implements an adaptive blind image watermarking algorithm with respect to edge pixel concentration and compares its NC results against JPEG attack with non-adaptive method's ones.

## REFERENCES

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### Prof. Shadrokh Samavi

*Professor, Isfahan University of Technology*

- Email: samavi96@cc.iut.ac.ir
- Web Site: samavi.iut.ac.ir

### Prof. Nasser Ghadiri

*Associate Professor, Isfahan University of Technology*

- Email: nghadiri@iut.ac.ir
- Web Site: nghadiri.iut.ac.ir

### Prof. Zeinab Zali

*Assistant Professor, Isfahan University of Technology*

- Email: zali@iut.ac.ir
- Web Site: zali.iut.ac.ir

### Prof. Elham Mahmoudzadeh

*Assistant Professor, Isfahan University of Technology*

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- Web Site: mahmoudzadeh.iut.ac.ir