# Maryam Saeidmehr

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Last Update: Sep 2022

## Education

**Isfahan University of Technology** — Isfahan, Iran
*B.Sc. in Computer Engineering;* ***GPA: 17.96/20 (3.84/4)*** — *Sep 2017 – Feb 2022*

**National Organization for Development of Exceptional Talents** — Isfahan, Iran
*Diploma in Mathematics and Physics;* ***GPA: 19.96/20 (4/4)*** — *Oct 2013 – Jun 2017*

## Research Interests

Machine Learning, Deep Learning, Computer Vision, Image Processing

## Research Experience

**Undergraduate Research Assistant** — Isfahan University of Technology
*Supervisor: Prof. Shadrokh Samavi* — *Sep 2021 – Aug 2022*

- Worked on Diagnosis of Covid-19 using CT scan images and Convolutional Neural Network based on DenseNet121 architecture

## Teaching Experience

**Teaching Assistant for "Compiler"** — Isfahan University of Technology
*Presented by Prof. Zeinab Zali* — *Jan 2022 – May 2022*

**Teaching Assistant for "Databases I"** — Isfahan University of Technology
*Presented by Prof. Nasser Ghadiri* — *Jan 2021 – May 2021*

## Selected Courses

- Fundamentals of Machine Learning 17.5/20
- Artificial Intelligence 18.34/20
- Applied Linear Algebra 18.7/20
- Signals and Systems Analysis 17.3/20
- Multimedia Systems 17.1/20
- Compiler 20/20
- Databases I 19/20

## Awards & Achievements

**Ranked 9th** Among 90 Undergraduate Students in Computer Engineering Department, Isfahan University of Technology — 2017 – 2022

**Ranked within the top 1%** 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

**Language:**

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

**Programming:**

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

**Frameworks:** Tensorflow, Keras, NumPy, Scikit-Learn, OpenCV, Pandas

## Projects

**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


**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*

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- Web Site: nghadiri.iut.ac.ir

**Prof. Zeinab Zali**

*Assistant Professor, Isfahan University of Technology*

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**Prof. Elham Mahmoudzadeh**

*Assistant Professor, Isfahan University of Technology*

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- Web Site: mahmoudzadeh.iut.ac.ir