# Maryam Saeidmehr

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Last Update: October 19, 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)*** — *Sep 2013 – Jun 2017*

## Research Interests

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

## Research Experience

**Isfahan University of Technology** — Isfahan, Iran
*Undergraduate Research Assistant* — *Oct 2020 – Sep 2021*

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

## Work Experience

**Zamin Company** — Isfahan, Iran
*Software Engineer intern* — *Jun 2021 – Sep 2021*

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

## Teaching Experience

**Compiler** — Isfahan University of Technology
*Teaching Assistant* — *Feb 2022 – Jun 2022*

**Databases I** — Isfahan University of Technology
*Teaching Assistant* — *Feb 2021 – Jun 2021*

## Notable 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)
- Engineering Mathematics (17.5/20)
- Differential Equation (18/20)
- Discrete Structures (19.4/20)
- Data Structures (20/20)
- General Mathematics I (19/20)
- General Mathematics II (19.5/20)
- Game Theory (18.2/20)

## 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 & Libraries:**

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

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

## 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*

- 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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