

Maryam Saeidmehr

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Last Update: Sep 2022

EDUCATION

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

Image processing with focus on medical images, Computer vision, Deep learning, Machine learning

RESEARCH EXPERIENCE

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

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

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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|---|-------------|
| 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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- Web Site: mahmoudzadeh.iut.ac.ir