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

Isfahan University of Technology — Isfahan, Iran
Undergraduate Research Assistant — *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 — Isfahan, Iran
Software Engineer intern — *Jun 2021 – Aug 2021*

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

TEACHING EXPERIENCE

Compiler — Isfahan University of Technology
Teaching Assistant — *Jan 2022 – May 2022*

Databases I — Isfahan University of Technology
Teaching Assistant — *Jan 2021 – May 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. Zeinab Zali
Assistant Professor, Isfahan University of Technology

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

Prof. Nasser Ghadiri
Associate Professor, Isfahan University of Technology

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

Prof. Elham Mahmoudzadeh
Assistant Professor, Isfahan University of Technology

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- Web Site: mahmoudzadeh.iut.ac.ir