

Maryam Saeidmehr

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EDUCATION

Isfahan University of Technology

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

Isfahan, Iran

Sept. 2017 – Feb. 2022

National Organization for Development of Exceptional Talents

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

Isfahan, Iran

Sept. 2013 – June 2017

AWARDS & ACHIEVEMENTS

Ranked 9th Among More Than 90 Undergraduate Students in Computer Engineering Department, Isfahan University of Technology

Dec. 2017 – Feb. 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

RESEARCH INTERESTS

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

RESEARCH EXPERIENCE

Isfahan University of Technology

Supervisor: Prof. Shadrokh Samavi

Isfahan, Iran

Oct. 2020 – Sept. 2021

- Proposed a deep convolutional neural network to efficiently detect COVID-19 from CT images using the transfer learning approach performing with a high degree of accuracy.

TEACHING EXPERIENCE

Isfahan University of Technology

Teaching Assistant for the course Compiler

Isfahan, Iran

Feb. 2022 – June 2022

- Assisted in creating course materials and procedures, grading, and conducting instructional workshops

Isfahan University of Technology

Teaching Assistant for the course Databases I

Isfahan, Iran

Feb. 2021 – June 2021

- Assisted in creating course materials and procedures, grading and conducting Q&A sessions

WORK EXPERIENCE

Zamin Company

Software Engineer Intern

Isfahan, Iran

June 2021 – Sept. 2021

- Assisted in building beautiful user interface for clients without compromising functionality for aesthetics.
- Learned front-end object-oriented programming to develop client server systems.
- Wrote unit tests in Jest to ensure code was tested and 100% bug free.

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)

SKILLS

Programming: Proficient in C, C++, Python and Familiar with MATLAB, R

Frameworks & Libraries: Tensorflow, Keras, NumPy, Scikit-Learn, Pandas, OpenCV

Operating System: Linux (Ubuntu, Kali), Windows

PROJECTS

COVID-19 Detector | [GitHub](#) | [WebApp](#) Sept. 2021 - Aug. 2022

- Implemented a deep convolutional neural network to detect Covid-19 from CT images using Keras and Tensorflow.
- Performed data pre-processing and augmentation using Python.
- Evaluated model performance using metrics such as accuracy, sensitivity, and specificity.
- Deployed model as a web application by using Django RESR framework and ReactJS.

Image Watermarking in DCT Domain | [GitHub](#) Dec. 2019 - Nov. 2019

- Designed and implement an adaptive blind image watermarking algorithm concerning edge pixel concentration, improving imperceptibility by about 24% compared to non-adaptive methods.
- Reviewed NC results of both adaptive and non-adaptive methods against JPEG attack.

REFERENCES

Prof. Shadrokh Samavi

Professor, Isfahan University of Technology

- Email: samavi96@cc.iut.ac.ir

Dr. Nasser Ghadiri

Associate Professor, Isfahan University of Technology

- Email: nghadiri@iut.ac.ir

Dr. Zeinab Zali

Assistant Professor, Isfahan University of Technology

- Email: zali@iut.ac.ir

Dr. Elham Mahmoudzadeh

Assistant Professor, Isfahan University of Technology

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