

Maryam Saeidmehr

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EDUCATION

Isfahan University of Technology <i>B.Sc. in Computer Engineering; CGPA: 17.96/20 (3.84/4), MGPA: 18.58/20 (4/4)</i>	Isfahan, Iran <i>Sept. 2017 – Feb. 2022</i>
National Organization for Development of Exceptional Talents <i>Diploma in Mathematics and Physics; CGPA: 19.96/20 (4/4)</i>	Isfahan, Iran <i>Sept. 2013 – June 2017</i>

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
Admitted to NODET , National Organization for Development of Exceptional Talents	Aug. 2013

RESEARCH INTERESTS

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

RESEARCH EXPERIENCE

Isfahan University of Technology <i>Supervisor: Prof. Shadrokh Samavi</i>	Isfahan, Iran <i>Oct. 2020 – Sept. 2021</i>
<ul style="list-style-type: none">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 <i>Teaching Assistant for the course Compiler</i>	Isfahan, Iran <i>Feb. 2022 – June 2022</i>
<ul style="list-style-type: none">Assisted in creating course materials and procedures, grading, and conducting instructional workshops	
Isfahan University of Technology <i>Teaching Assistant for the course Databases I</i>	Isfahan, Iran <i>Feb. 2021 – June 2021</i>
<ul style="list-style-type: none">Assisted in creating course materials and procedures, grading and conducting Q&A sessions	

WORK EXPERIENCE

Zamin Company <i>Software Engineer Intern</i>	Isfahan, Iran <i>June 2021 – Sept. 2021</i>
<ul style="list-style-type: none">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)	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)

ONLINE NOTABLE COURSES

- Convolutional Neural Networks, Coursera
- Neural Networks and Deep Learning, Coursera
- Advanced Learning Algorithms, Coursera
- Machine Learning A-Z™: Hands-On Python & R In Data Science, Udemy
- Supervised Machine Learning: Regression and Classification, Coursera

SKILLS

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

Frameworks & Toolkits: Tensorflow, Keras, NumPy, Scikit-Learn, Pandas, OpenCV, Arduino, Git

Web: HTML5, CSS3, Javascript, JQuery, ReactJS, Bootstrap, Django

Operating System: Linux (Ubuntu, Kali), Windows

Typesetting: Latex, Microsoft Office

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 REST 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

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