Maryam Saeidmehr

+98 937 157 0703 | maryamsaeidmehr@gmail.com | LinkedIn | GitHub | Portfolio | Isfahan, Iran

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*

Awards & Achievements

Ranked 9th Among More Than 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

Research Interests

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

Research Experience

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

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

Teaching Experience

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

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

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

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

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

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 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 deployed into a Django-Reactjs web application.

Image Watermarking in DCT Domain | *GitHub*

- 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

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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