Saeed Shakuri

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 ☑ Google Scholar
 ☑ ResearchGate
 ☑ HomePage
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Overview

My research interests broadly lie in Deep Learning within real-world applications and challenges such as medical and healthcare applications. My current research focuses on Computer Vision methods (Object detection) in detecting lung nodules for lung cancer in CT scan images. Also, I have authored a paper in this field and collaborated on a few other papers in the context of real-time emotion recognition (Image classification).

Research interests: Deep Learning, Computer Vision, Medical Applications in Deep Learning

Education

University of Science and Culture, Tehran, Iran

M.S., Data Science

Thesis: Few-shot lung nodule detection.

GPA: 4 of 4 (19.05 of 20)

Technical and Vocational University, Tehran, Iran

B.E., Electronics engineering (Shamsipour College)

Project: A smart house remote control using Arduino.

Technical and Vocational University, Karaj, Iran

A.S., Electronics engineering (Beheshti College)

2018 - 2021

Advisor: Dr. Mahdiyar Nouri Rezaie

Oct. 2021 - Expected Feb. 2025

Advisor: Dr. Alireza Rezvanian

2016 - 2018

Publications

(Accepted) Saeed Shakuri and Alireza Rezvanian. "An Efficient Approach in Detecting Lung Nodules Using Swin Transformer." 19th Iranian Conference on Intelligent Systems (ICIS), IEEE, 2024.

(<u>Published</u>) Omid Ghadami, Alireza Rezvanian, and **Saeed Shakuri**. "Scalable Real-time Emotion Recognition using EfficientNetV2 and Resolution Scaling." 10th International Conference on Web Research (ICWR), IEEE, 2024.

(Under Review) Omid Ghadami, Alireza Rezvanian, Saeed Shakuri, and Mohammad Shamami. "Real-time facial emotion recognition in smartphones using EfficientNetV2 and quantization-aware training." Multimedia Tools and Application, Springer.

(In preparation) Saeed Shakuri and Alireza Rezvanian, "Lung Nodule Detection Using Few-shot Learning and Swin Transformer." to be submitted to Computerized Medical Imaging and Graphics.

Teaching Assistant

Information Retrieval on the Web (Graduate class) University of Science and Culture	Fall 2024
Artificial Intelligence (Undergraduate class) University of Science and Culture	Fall 2023
Machine Learning (Graduate class) University of Science and Culture	Fall 2022

Notable Academic Projects

All of the projects were implemented with Python in Google Colab

Object detection with Detectron2

<u>Link</u>: https://github.com/SaeedShakuri/Detectron2

Measuring sentence similarity with a TF-IDF approach

Link: https://github.com/SaeedShakuri/ML-DL-Projects/tree/main/NLP

Image classification and object detection projects using PyTorch

Link: https://github.com/SaeedShakuri/Computer-Vision

A classification project using Ensemble Learning with the Abalone dataset

<u>Link</u>: https://github.com/SaeedShakuri/ML-DL-Projects/tree/main/Ensemble%20Learning

Professional Services

Reviewer

Elsevier - International Journal of Electrical and Computer Engineering

Oct. 2024

Wiley - The Journal of Engineering

Aug. 2023
Elsevier - Data in Brief Journal

Aug. 2023 - Apr. 2023

Jul. 2023 & Jan. 2024

University of Science and Culture

• Judging the final projects of computer science undergraduate students.

Invited Presenter Dec. 2022

University of Science and Culture

• Presentation title: An Introduction to Few-Shot Learning

Skills

Programming Languages

Python, Dart, C

Softwares and Tools

Google Colaboratory, EndNote, LaTex, MiniTab, VSCode

Technological Proficiencies

PyTorch, Detectron2, OpenCV, NumPy, Matplotlib, Flutter

IELTS Academic (Taken in Sep. 2023)

Overall: 7, Speaking: 7.5, Listening: 7, Writing: 6.5, Reading: 7

Masters Courses

All of the courses received a grade of 4 out of 4:

Natural Language Processing	Spring 2023
Computer Vision	Fall 2022
Computational Social Network	Fall 2022
Artificial Neural Networks	Spring 2022
Machine Learning	Spring 2022
• Seminar	Spring 2022
Data Science Mathematics	Fall 2021
Advanced Algorithms	Fall 2021
Applied Data Analysis	Fall 2021

References

References are available upon request.