### Saeed Shakuri

# ✓ saeed.shakuri@stu.usc.ac.ir ☑ Google Scholar ☒ ResearchGate in LinkedIn 黛 Website

#### Overview

My research interests broadly lie in Deep Learning methodologies within real-world applications and challenges. My current research focuses on Computer Vision methods in detecting lung nodules associated with lung cancer. The highlight of my research is as follows:

- I have authored a paper titled 'An Efficient Approach in Detecting Lung Nodules Using Swin Transformer' which has been accepted at the 10th ICSIE, 2024 (IEEE).
- I am currently working on employing Few-shot Learning methods in object detection for detecting lung nodules from CT scan images.
- I have also collaborated on two papers focused on the Image Classification task (More info in the Publications section).

Research interests: Deep Learning, Computer Vision, Medical Image Analysis

#### Education

University of Science and Culture, Tehran, Iran

Oct. 2021 - Expected Feb. 2025

M.S., Data Science

Advisor: Dr. Alireza Rezvanian

**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.

2018 - 2021

Advisor: Dr. Mahdiyar Nouri Rezaie

**Technical and Vocational University**, Karaj, Iran A.S., Electronics engineering (Beheshti College)

2016 - 2018

#### **Publications**

(Accepted) Saeed Shakuri and Alireza Rezvanian. "An Efficient Approach in Detecting Lung Nodules Using Swin Transformer." 10th International Conference on Industrial and Systems Engineering (ICISE), 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 Experience

## Teaching Assistant, Undergraduate Artificial Intelligence class University of Science and Culture Fall 2023

Teaching Assistant, Graduate Machine Learning class
University of Science and Culture

Fall 2022

#### Notable Academic Projects

#### Object detection with Detectron2

Language: Python, Link: https://github.com/SaeedShakuri/Detectron2

Measuring sentence similarity with a TF-IDF approach

Language: Python, Link: https://github.com/SaeedShakuri/Projects/tree/main/NLP

A few Deep Learning projects using PyTorch (Computer Vision)

 $\underline{\textbf{Language:}} \hspace{0.2cm} \textit{Python,} \hspace{0.2cm} \underline{\textbf{Link}} : \texttt{https://github.com/SaeedShakuri/PyTorch.git}$ 

A classification project using Ensemble Learning with the Abalone dataset

Language: Python, Link: https://github.com/SaeedShakuri/Projects/tree/main/Ensemble%20Learning

#### **Professional Services**

Reviewer

Wiley - The Journal of Engineering Aug. 2023

Elsevier - Data in Brief Journal Mar. 2023 - Apr. 2023

Jul. 2023 & Jan. 2024

University of Science and Culture

• Judging the final projects of computer science undergraduate students.

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.