# Saeed Shakuri

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⑤ Google Scholar
℟ ResearchGate
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Last updated: Oct. 2024

2018 - 2021

Advisor: Dr. Mahdiyar Nouri Rezaie

#### 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' and has been accepted at the 19th ICIS, 2024 (IEEE), which will take place on Oct. 23 and 24, 2024.
- I also have worked on employing Few-shot Learning methods in object detection for detecting lung nodules from CT scan images, and it's in the final phase and is going to be submitted to Computerized Medical Imaging and Graphics.
- I have also collaborated on two papers focused on the Image Classification domain within real-time emotion recognition (More info in the Publications section).

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

#### 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.

Technical and Vocational University, Karaj, Iran

2016 - 2018

A.S., Electronics engineering (Beheshti College)

#### 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

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

## Notable Academic Projects

All of the projects were implemented with Python in Google Colab

Object detection with Detectron2

Link: https://github.com/SaeedShakuri/Detectron2

Measuring sentence similarity with a TF-IDF approach

<u>Link</u>: 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

Judge

Elsevier - International Journal of Electrical and Computer Engineering

Oct. 2024

Wiley - The Journal of Engineering

Aug. 2023

Jul. 2023 & Jan. 2024

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

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.