






# Saeed Shakuri

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 Google Scholar  
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 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, Transformers, Medical Image Processing

## Education

<b>University of Science and Culture, Tehran, Iran</b> M.S., Data Science <b>Thesis:</b> Few-shot lung nodule detection. <b>GPA:</b> 4 of 4 (19.05 of 20)	Oct. 2021 - Expected Feb. 2025 Advisor: <a href="#">Dr. Alireza Rezvanian</a>
<b>Technical and Vocational University, Tehran, Iran</b> B.E., Electronics engineering (Shamsipour college) <b>Project:</b> A smart house project with monitoring and controlling household environmental conditions and switches using Arduino.	2018 - 2021
<b>Technical and Vocational University, Karaj, Iran</b> A.S., Electronics engineering (Beheshti College) <b>Project:</b> A smart house project with a digital lock and an automatic light switch.	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.
- (Published) 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, "Few-shot Lung Nodule Detection Using Vision Transformers".

## Teaching Experience

<b>Teaching Assistant, Undergraduate Artificial Intelligence class</b> University of Science and Culture	Fall 2023
<b>Teaching Assistant, Graduate Machine Learning class</b> University of Science and Culture	Fall 2022

## Notable Academic Projects

<b>Object detection with Detectron2</b> <b>Language:</b> Python, <b>Environment:</b> Google Colaboratory <b>Link:</b> <a href="https://github.com/SaeedShakuri/Detectron2">https://github.com/SaeedShakuri/Detectron2</a>
<b>Measuring sentence similarity with a TF-IDF approach</b> <b>Language:</b> Python, <b>Environment:</b> Google Colaboratory <b>Link:</b> <a href="https://github.com/SaeedShakuri/Projects/tree/main/NLP">https://github.com/SaeedShakuri/Projects/tree/main/NLP</a>
<b>Deep Learning projects using PyTorch (Computer Vision)</b> <b>Language:</b> Python, <b>Environment:</b> Google Colaboratory <b>Link:</b> <a href="https://github.com/SaeedShakuri/PyTorch.git">https://github.com/SaeedShakuri/PyTorch.git</a>

## A classification project using Ensemble Learning with the Abalone dataset

**Language:** Python, **Environment:** Google Colaboratory

**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

### Judge

University of Science and Culture

Jul. 2023 & Jan. 2024

- 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

### Natural Language Processing

GPA: 4 / 4

Spring 2023

### Computer Vision

GPA: 4 / 4

Fall 2022

### Computational social network

GPA: 4 / 4

Fall 2022

### Artificial Neural Networks

GPA: 4 / 4

Spring 2022

### Machine Learning

GPA: 4 / 4

Spring 2022

### Seminar

GPA: 4 / 4

Spring 2022

### Data Science Mathematics

GPA: 4 / 4

Fall 2021

### Advanced Algorithms

GPA: 4 / 4

Fall 2021

### Applied Data Analysis

GPA: 4 / 4

Fall 2021

## References

References are available upon request.