






Saeed Shakuri

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 Google Scholar
 ResearchGate
 LinkedIn
 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

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)	Oct. 2021 - Expected Feb. 2025 Advisor: Dr. Alireza Rezvanian
Technical and Vocational University, Tehran, Iran B.E., Electronics engineering (Shamsipour college) Project: Monitoring and controlling household environmental conditions and switches.	2018 - 2021
Technical and Vocational University, Karaj, Iran A.S., Electronics engineering (Beheshti College) Project: 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

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

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

- Conducting assessment for computer science bachelor students' final projects, followed by assigning grades.

Presenter

Dec. 2022

University of Science and Culture

- Presentation title: [An Introduction to Few-Shot Learning](#)

Work Experience

BlazingFallApps, remotely

Mar. 2020 - Nov. 2021

Software Developer

- Developing various mobile applications using the Flutter framework

PergasTeb, remotely

May. 2020 - Oct. 2020

Software Developer

- Developing a medical android application using the Flutter framework

Skills

Programming Languages

Python, Dart, C

Softwares and Tools

Google Colaboratory, EndNote, LaTeX, MiniTab, VSCode, Android Studio

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

Spring 2023

GPA: 4 / 4

Computer Vision

Fall 2022

GPA: 4 / 4

Computational social network

Fall 2022

GPA: 4 / 4

Artificial Neural Networks

Spring 2022

GPA: 4 / 4

Machine Learning

Spring 2022

GPA: 4 / 4

Data Science Mathematics

Fall 2021

GPA: 4 / 4

Advanced Algorithms

Fall 2021

GPA: 4 / 4

Applied Data Analysis

Fall 2021

GPA: 4 / 4

References

References are available upon request.