






# Saeed Shakuri

 [saeed.shakuri@stu.usc.ac.ir](mailto:saeed.shakuri@stu.usc.ac.ir)  
 [github.com/SaeedShakuri](https://github.com/SaeedShakuri)  
 Saeed Shakuri  
 Saeed Shakuri  
 Website

## Overview

I am a master's student in Data Science major at the University of Science and Culture, Tehran, Iran. I am truly enthusiastic about doing research at the forefront of Deep Learning methods within real-world applications in general, which leads to high-quality research in real-world challenges. I recognize the importance and my passion for this field, and I am committed to performing continuous and comprehensive research in my field of study.

### Highlight of my research experience:

- I am currently working on object detection in images for my master's thesis, utilizing a method that integrates Few-Shot Learning and Vision Transformers on medical images.
- I recently collaborated on two articles titled 'Real-time facial emotion recognition in smartphones using EfficientNetV2 and quantization-aware training' and 'Scalable real-time emotion recognition using EfficientNetV2 and resolution scaling.', which are submitted to "Journal of Real-Time Image Processing (Springer)" and "ICWR 10th (IEEE)" respectively.

**Research interests:** Machine learning, Deep Learning, Computer Vision, Transformers

## Education

University of Science and Culture, Tehran, Iran M.S., Data Science Thesis: Object detection with Few-Shot Learning and Vision Transformers	Oct. 2021 - Expected summer 2024 Advisor: <a href="#">Dr. Alireza Rezavanian</a>
Technical and Vocational University, Tehran, Iran B.E., Electronics engineering (Shamsipour college)	2018 - 2021
Technical and Vocational University, Karaj, Iran A.S., Electronics engineering (Beheshti College)	2016 - 2018

## Publications

- (Submitted) Omid Ghadami, Alireza Rezvanian, **Saeed Shakuri**, and Mohammad Hojjat Shamami. "Real-time facial emotion recognition in smartphones using EfficientNetV2 and quantization-aware training." In Journal of Real-Time Image Processing, Springer.
- (Submitted) Omid Ghadami, Alireza Rezvanian, and **Saeed Shakuri**. "Scalable real-time emotion recognition using EfficientNetV2 and resolution scaling." In 2024 10th International Conference on Web Research (ICWR), IEEE.
- (In preparation) **Saeed Shakuri**, Alireza Rezvanian, "Object detection with Few-Shot Learning and Vision Transformers on medical images".

## Teaching Experience

Teaching Assistant, Undergraduate Artificial Intelligence course University of Science and Culture Dr. Azadeh Tabatabaei	Fall 2023
Teaching Assistant, Graduate Machine Learning course University of Science and Culture Dr. Alireza Rezvanian	Fall 2022

## Notable Academic Projects

Object detection with Detectron2 Language: <i>Python</i> , Environment: <i>Google Colaboratory</i> Link: <a href="https://github.com/SaeedShakuri/Detectron2">https://github.com/SaeedShakuri/Detectron2</a>
Measuring sentence similarity with a TF-IDF approach Language: <i>Python</i> , Environment: <i>Google Colaboratory</i> Link: <a href="https://github.com/SaeedShakuri/Projects/tree/main/NLP">https://github.com/SaeedShakuri/Projects/tree/main/NLP</a>
Using PyTorch in Deep Learning tasks (Computer Vision) Language: <i>Python</i> , Environment: <i>Google Colaboratory</i> Link: <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: <i>Python</i> , Environment: <i>Google Colaboratory</i> Link: <a href="https://github.com/SaeedShakuri/Projects/tree/main/Ensemble%20Learning">https://github.com/SaeedShakuri/Projects/tree/main/Ensemble%20Learning</a>

## An Image classification project using Transfer Learning with ResNet50

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

**Link:** <https://github.com/SaeedShakuri/Projects/tree/main/Convolutional-Neural-Network/Transfer%20Learning>

## Professional Services

<b>Reviewer</b>	
Wiley - The Journal of Engineering	Aug. 2023
Elsevier - Data in Brief Journal	Mar. 2023 - Apr. 2023
<b>Judge</b>	Jul. 2023 & Jan. 2024
University of Science and Culture	
• Conducting assessments of computer science bachelor students' final projects, followed by assigning grades	
<b>Presenter</b>	Dec. 2022
University of Science and Culture	
• Presentation title: <a href="#">An Introduction to Few-Shot Learning</a>	

## Work Experience

<b>BlazingFallApps, remotely</b>	Mar. 2020 - Nov. 2021
Software Developer	
• Developing various mobile applications with the Flutter framework	
<b>PergasTeb, remotely</b>	May. 2020 - Oct. 2020
Software Developer	
• Developing a medical android application with the Flutter framework	

## Skills

<b>Programming Languages</b>	
Python, Dart, C	
<b>Softwares and Tools</b>	
Google Colaboratory, EndNote, LaTeX, MiniTab, VSCode, Android Studio	
<b>Technological Proficiencies</b>	
PyTorch, Detectron2, OpenCV, NumPy, Flutter	
<b>IELTS Academic (Taken in Sep. 2023)</b>	
Overall: 7, Speaking: 7.5, Listening: 7, Writing: 6.5, Reading: 7	

## Masters Courses

<b>Natural Language Processing</b>	Spring 2023
GPA: 4	
<b>Computer Vision</b>	Fall 2022
GPA: 3.93	
<b>Computational social network</b>	Fall 2022
GPA: 3.73	
<b>Artificial Neural Networks</b>	Spring 2022
GPA: 3.97	
<b>Machine Learning</b>	Spring 2022
GPA: 3.91	
<b>Data Science Mathematics</b>	Fall 2021
GPA: 4	
<b>Advanced Algorithms</b>	Fall 2021
GPA: 3.73	
<b>Applied Data Analysis</b>	Fall 2021
GPA: 3.76	

## References

<b>Dr. Alireza Rezvanian</b> Assistant Professor Rezvanian@usc.ac.ir University of Science and Culture	<b>Dr. Fatemeh Azimzadeh</b> Assistant Professor azimzadeh@acecr.ac.ir University of Science and Culture	<b>Dr. Azadeh Tabatabaei</b> Assistant Professor a.tabatabaei@usc.ac.ir University of Science and Culture
<b>Dr. Mohammad Javad Shayegan Fard</b> Associate Professor shayegan@usc.ac.ir University of Science and Culture	<b>Dr. Alireza Mansouri</b> Assistant Professor amansuri@itrc.ac.ir ICT Research Center	