

## 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**’ which is submitted to “Journal of Real-Time Image Processing (Springer)” and ‘**Scalable real-time emotion recognition using EfficientNetV2 and resolution scaling.**’ which is accepted and presented in “ICWR 10th (IEEE)”.

**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 on medical Images.	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.
- (Accepted & Presented) 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 <u>Language:</u> Python, <u>Environment:</u> Google Colaboratory <u>Link:</u> <a href="https://github.com/SaeedShakuri/Detectron2">https://github.com/SaeedShakuri/Detectron2</a>
Measuring sentence similarity with a TF-IDF approach <u>Language:</u> Python, <u>Environment:</u> Google Colaboratory <u>Link:</u> <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) <u>Language:</u> Python, <u>Environment:</u> Google Colaboratory <u>Link:</u> <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 <u>Language:</u> Python, <u>Environment:</u> Google Colaboratory <u>Link:</u> <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

### Reviewer

Wiley - The Journal of Engineering

Aug. 2023

Elsevier - Data in Brief Journal

Mar. 2023 - Apr. 2023

### Judge

Jul. 2023 & Jan. 2024

University of Science and Culture

- Conducting assessments of 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 with the Flutter framework

### PergasTeb, remotely

May. 2020 - Oct. 2020

Software Developer

- Developing a medical android application with 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

### Computer Vision

Fall 2022

GPA: 3.93

### Computational social network

Fall 2022

GPA: 3.73

### Artificial Neural Networks

Spring 2022

GPA: 3.97

### Machine Learning

Spring 2022

GPA: 3.91

### Data Science Mathematics

Fall 2021

GPA: 4

### Advanced Algorithms

Fall 2021

GPA: 3.73

### Applied Data Analysis

Fall 2021

GPA: 3.76

### Seminar

Spring 2022

GPA: 3.8

## References

References available upon request.