

# Afshin Karimi

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## RESEARCH INTERESTS

**Medical Image Analysis**

**Neuroimaging**

**Deep Learning**

**Computer Vision**

## EDUCATION

### Sharif University of Technology

*Master Of Science in Artificial Intelligence*

2020 – Present

GPA(up to now): 19.09/20 (4.0/4.0)

> Thesis :

- Feature extraction for financial markets' transactions using deep learning  
Supervisor : Prof. M.T. Manzuri Shalmani

> Courses :

- Machine Learning (GPA: 19.8/20)
- Deep Learning (GPA: 19.2/20)
- Advanced 3D Computer Vision (GPA: 18.5/20)
- Digital Signal Processing (GPA: 19.8/20)
- Artificial Intelligence (GPA: 20/20)

### Tabriz Azad University

*Bachelor Of Mechanical Engineering*

2006 – 2013

GPA: 14.46/20

## HONORS AND AWARDS

- Ranked 9th in the national university entrance exam for an M.Sc. degree in Computer Engineering in 2020, Iran (among the top 0.1%)

## Publication

### A BAYESIAN-BASED CLASSIFICATION FRAMEWORK FOR FINANCIAL TIME SERIES TREND PREDICTION (SUBMITTED TO THE JOURNAL OF SUPERCOMPUTING)

[Github\(2022\)](#)

- > In this project, we use a labeling algorithm, different models, and a new cross-validation method, which is called Purged Cross-Validation, to predict financial time-series datasets

## TEACHING EXPERIENCES

### Teaching Assistant, Sharif University of Technology

Fall 2021

- > Machine Learning (Prof. Beigy)
- > Deep Learning (Prof. Beigy)
- > Artificial Intelligence (Prof. Rohban)

### Teaching Assistant, Sharif University of Technology

Spring 2021

- > Signal Processing (Prof. Manzuri)

## WORK EXPERIENCES

### TESTIFY GMBH

Python Developer

Feb . 2022 – May . 2022

Germany

### Hoodad Tech

Back End Developerr

Dec . 2015 – Pct . 2019

Tehran

## PROJECTS

- \* Pneumonia classification on the chest X-Ray dataset(ResNet18) [Github](#)
- \* Cardiac detection on the chest X-Ray dataset(ResNet18) [Github](#)
- \* Atrium segmentation on cardiac MRI images(UNet) [Github](#)
- \* Lung tumor segmentation on CT images(UNet) [Github](#)
- \* 3D liver and liver tumor segmentation on cardiac MRIs(3D-UNet) [Github](#)

## CERTIFICATES

### Deep Learning with PyTorch for Medical Image Analysis

Udemy [Credential URL](#)

2022

### Fundamental Neuroscience for Neuroimaging

Coursera [Credential URL](#)

2022

### Getting and Cleaning Data

Coursera [Credential URL](#)

2021

### Machine Learning

Coursera [Credential URL](#)

2019

### Advanced Databases and SQL Querying

Udemy [Credential URL](#)

2018

## SKILLS

**Languages:** Persian(Native), English(Fluent) , Turkish(Fluent)

**Programming Languages:** Python, C#, JavaScript, SQL, MATLAB

**Typesetting:**  $\text{\LaTeX}$

## TOEFL SCORE

Total Score:102 - Reading:28 - Listening:29 - Speaking:21 - Writing:24

## REFERENCES

Upon the request