

Afshin Karimi

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RESEARCH INTERESTS

Deep Learning
Computer Vision
Medical Image Analysis

EDUCATION

Sharif University of Technology

Master Of Science in Artificial Intelligence

2020 – Present

GPA(up to now): 19.32/20 (4.0/4.0)

- > Thesis :
 - Feature extraction for financial markets' transactions using deep learningSupervisor : 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

An Automated Tri-State Labeling Algorithm for Trend Prediction in Stock Market (Submitted)

2021

- > 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 [Github](#)

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

MAAT Full Service Marketing and Advertising Agency

Full Stack Developer

Sep . 2018 – Oct . 2019

Tehran

Rayvarz Software Engineering Company

Back End and Windows Application Developer

Jun . 2018 – Sep . 2018

Tehran

Hoodad Tech

Back End Developer, Database Designer

Dec . 2015 – Jun . 2018

Tehran

COURSE PROJECTS

Machine Learning

Winter 2021

- * Heart disease prediction using SVM [Github](#)
- * Clustering on Iris dataset using XGBoost and Gradient Boost [Github](#)

Deep Learning

Winter 2021

- * Implementing a Deep Q-Network (DQN) model with Experience Replay and Target Network technics using Pytorch [Github](#)
- * Implementing a generative adversarial network (GAN) that can generate hand-written images of digits (0-9) using PyTorch. [Github](#)
- * Implementing a variational autoencoders (VAE) applied to the MNIST dataset. [Github](#)
- * Implementing the ResNet-18 using PyTorch(CIFAR10 dataset) [Github](#)
- * Implementing the U-Net using PyTorch(CT dataset) [Github](#)

Advanced 3D Computer Vision

Fall 2020

- * Keypoint Description and Matching [Github](#)
- * Template Matching and point clouds aligning with ICP algorithm [Github](#)

NON-ACADEMIC PROJECTS

Taak/Beshno Application

Jan 2019 – May 2019

- * This software is designed to enhance the reading culture and users can use available audio and electronic books.

Hoodad VAS (Value Added Service)

Jan 2018 – Jul 2018

- * This software is designed to connect with all three Iranian mobile operators (MCI, MTN Irancell, and RighTel) so that the app users can pay for their monthly subscriptions for the apps mentioned above on their mobile bills.

Hoodad CMS Platform

Sep 2017 – Dec 2017

- * This software is a CMS (Content Management System). This software is designed for those who work in the content team of the company and have no technical and programming knowledge; so that, they can publish an application themselves within the shortest possible time.

Ham-ahang Application (Cross platform music demand)

Apr 2017 – Dec 2017

- * This software is designed to play Iranian music (Music streaming). In this version, HoodadLibraries has been used.

HoodadLibraries Library

Dec 2016 – Apr 2017

* The HoodadLibraries is a library that is visible on the Nuget Private Server, owned by the Hoodad Technology Pioneers Company and can only be accessed from within the company's IP range. In this library, we tried to integrate some of the most commonly used parts of a software (such as Register, Login, Payment, CDN, etc) as a reusable module for further use in other projects owned by the company.

CERTIFICATES

Getting and Cleaning Data

2021

Coursera [Credential URL](#)

Machine Learning

2019

Coursera [Credential URL](#)

Advanced Databases and SQL Querying

2018

Udemy [Credential URL](#)

SKILLS

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

Programming Languages: Python, C#, Java, MATLAB

Web/DB Technologies: HTML, CSS, SQL, ASP.NET, JavaScript

Typesetting: \LaTeX

HOBBIES

Swimming, Playing Soccer, Social Activities

REFERENCES

Upon the request