Afshin Karimi

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RESEARCH INTERESTS

Deep Learning

Computer Vision

3D Vision

Human Perception

EDUCATION

Sharif University of Technology
Master Of Science in Artificial Intellligence

2020 – Present
GPA(up to now): 19.32/20 (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

2007 – 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

Financial Time-series Prediction Using Purged Cross-Validation (In Process)

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   Sep . 2018 – Oct . 2019
Full Stack Developer   *Tehran*

Rayvarz Software Engineering Company   Jun . 2018 – Sep . 2018
Back End and Windows Application Developer   *Tehran*

Hoodad Tech   Dec . 2015 – Jun . 2018
Back End Developer, Database Designer   *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