Afshin Karimi

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/Website

RESEARCH INTERESTS

Medical Image Analysis

Neuroimaging

Deep Learning

Computer Vision

EDUCATION

Sharif University of Technology
2020 – Present

Master Of Science in Artificial Intellligence
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
2006 – 2013

Bachelor Of Mechanical Engineering
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 Feb . 2022 – May . 2022
Python Developer *Germany*

Hoodad Tech Dec . 2015 – Pct . 2019
Back End Developerr *Tehran*

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

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#, JavaScript, SQL, MATLAB
Typesetting: LaTeX

TOEFL SCORE

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

REFERENCES

Upon the request