Sharare Zolghadr

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Research Interests

Data Science
Machine Learning and Deep Learning
Computational NeuroScience
Artificial Intelligence
Human-Computer Interaction

Education

University of Padua
M.Sc., Data Science, Fall 2022.

University of Tehran
B.Sc., Computer Science, Sep2016 - Jul2021.
GPA: 15.19/20 (Department GPA : 14.94)

Farzanegan Chahardangeh Middel and High School
National Organization for Development of Exceptional Talents Tehran, Iran.
Diploma In Mathematics and Physics
GPA : 19.36/20

Research Experience

Sentiment Analysis using Natural Language Processing approachs
Retrieve people's opinions about the movies based on movie-reviews dataset
github.com/shararezr/Sentiment-Analysis
Supervisor: Dr.Hedie Sajedi
University Of Tehran

Find the maximume foculity electric field in the Brain Stimulation
Research Area: Machine Learning and Optimization

Internship/Trainings

Front-end developer intern
Vue.js

Cognitive Neuroscience and Systems Training program at IPM
Summer 2021 - Spring 2022 (http://scs.ipm.ac.ir/new/)

Honors

Ranked top 0.25 among more than 50000 students in the Iranian Entrance University Exam for Bachelor of Science Programs 2016.

Participating in RoboCup Iran Open Competitions 2012-2013
League: Joniur Soccer B Light Weight

Course Projects

Artificial Intelligence Projects
Hand gesture recognition
Simple Q-tables Reinforcement Learning using Q-Learning
Ackley Optimization by Genetic algorithm, Simulated annealing
8-queens solution by Genetic algorithm, Hill Climbing Algorithm
Implemented in Python

Intelligent Systems Projects
Implement Machine Learning Algorithms from scratch
(Supervised and Unsupervised Methods)
Implemented in Python

Data-mining Projects
Cleaning and Classifying and Predicting on Diabetic and
Phishing and Mnist dataset by using different classifiers
github.com/shararezr/data-mining

Computational-NeuroScience Projects
Simulating Features of Human Visual System by Spiking-HMAX Model
Implementing Mechanistic Model of V1 Simple Cells and Ganglion cells
Implementing Reward-Modulated STDP and Polychronization
Simulating Spike-Timing Dependent Plasticity
Implementing Neuronal Models of Decision Making
Simulating Population Activity with different types of connectivity
Simulating LIF,ELIF,AELIF Neuron model

Related Courses

Artificial Intelligence
Data Mining
Intelligent Systems
Computational NeuroScience
Advanced Programming
Linear Algebra
Statistical Methods , Probability1
Data Structures and Algorithms
Deeplearning.ai Andrew NG(self study)
Statistical Learning Standford course(self study)

Languages

Persian (Native), English (Fluent), Italian (Learning)
I will take the TOEFL exam on November 27th 2021

Technical Skills

Languages
Python, C++, SQL, Bash, HTML/CSS, R, Matlab, LaTeX
Developer Tools
Git, Docker, Linux, Jupyter Notebook
Libraries and Frameworks
Pandas, NumPy, Matplotlib, Sklearn, scikit-learn, PyTorch, Django, Qt

Extracurricular Interests

Yoga, Camping, Photography, Content creation, Sociology