Negar Honarvar Sedighian

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 • ♠ negarhonarvar

Education

Shahid Behehshti University

Tehran, Iran

Bachelor of Science in Computer Engineering

Sep. 2020 to Feb. 2025[Expected]

Cumulative GPA: 17.42/20 (3.67/4)

O GPA of last two years: 18.23/20 (3.78/4)

O Ranked 2nd in admission among 90 admitted students.

Relevant Courses: GPA: 4/4

Fundamentals of Computer Vision
 Fundamentals of Robotics
 Deep Reinforcement Learning
 Machine Learning
 Artificial Intelligence
 Algorithms Design

- Statistics and Probability

- Computer Simulation

- Data Structures

Farzanegan 1 Secondary School

High School Diploma in Mathematics

O Diploma GPA: 19.98/20 (4.0/4.0)

O Ranked 321st in University Entrance Exam in Iran

O Ranked 1st in admission among Sampad students in Khorasan Province.

Mashhad, Iran Sep. 2017 to Jun. 2020

Research Interests

 Application of Deep Machine Learning Methods in Health Care

- Accelerated MRI Reconstruction

- Deep Reinforcement Learning Algorithms and Their Application

- Graph Neural Networks Methods and Application

- Image Super Resolution and Denoising

 Policy Reproducibility in Deep Reinforcement Learning Algorithms

Projects

Automated Stock Trading Strategy with DRL

Jun. 2024

- Designing a Cascading Long Short-Term Memory Proximal Policy Optimization (PPO) model which uses LSTM layers to capture temporal dependencies in stock data and a PPO algorithm to optimize trading decisions.
- Farsi News Classification

Mar. 2024

- The goal of this project is to develop a neural network model to classify news articles into their respective categories.
- The dataset has been preprocessed with Tokenization and Feature Extraction.
- Guidance of a Quadcopter for Object Detection

Feb. 2024

- Designed a controller for a quadcopter to control its flight over boxes in an urban environment and detect target clothing items.

Tron Game Agent

May. 2023

- This game consists of two real-time agents that try to create more walls than their opponent while avoiding collisions with each other and the boundary walls. The Unity framework is based on Chillin's monitor games.
- The algorithm devised for this game is a combination of a Genetic Algorithm and Minmax, where the Minmax algorithm is used as the fitness function for the Genetic Algorithm.

O Doodle Jump Mar. 2023

- A simple version of the Doodle Jump game with red square-shaped bugs, green broken platforms, and white platforms. The main character is a white rounded ball, which can be moved left or right with the 'j' and 'k' buttons.

Work Experience

Network Security Apprentice

Dotin

Tehran, Iran Jun. 2023 to Oct. 2023

- Management of access levels for company members in various departments to available resources and information in each section by utilizing Windows Azure, as well as identifying and analyzing potential weaknesses and breaches in the network.

Teaching Assistant Experience

Artificial Intelligence	Sep. 2024 - Present
- Lectured by: Dr. Armin Salimi	
 Discrete Mathematics 	Sep. 2024 - Present
- Lectured by: Dr. Farshad Safaei	
 Algorithms Design 	Sep. 2024 - Present
- Lectured by:Dr. Ramak Ghavamizadeh	
 Software Engineering 	Feb. 2024 - Jul. 2024 (6 mos)
- Lectured by: Dr. Mehran Alidoostnia	· · ·
 Technical English 	Sep. 2023 - Jul. 2024 (11 mos)
- Lectured by: Dr. Vahidi Asl	
Computer Architecture	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Rahmati	
 Advanced Programming 	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Vahidi Asl	
Artificial Intelligence	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Mehrnoush Shamsfard	
 Compiler Design 	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Mehran Alidoostnia	
 Computational Intelligence 	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Shahab Nabavi	
 Operating Systems Labratory 	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Shahab Navabi	
 Statistic and Probability 	Sep. 2023 - Jan. 2024 (5 mos)
- Lectured by: Dr. Farshad Safaei	

Honors and Awards

- Ranked 2nd among 90 in admission among admitted students in the Computer Engineering department, Shahid Beheshti University, 2023.
- Ranked 321st in National entrance exam for B.Sc Studies among 160,000 students, 2020.
- Ranked 1stin National Organization for Development of Exceptional Talents Secondary School Entrance Exam in Khorasan, 2017.