Seyed Mohammadreza Alavi

School of Electrical and Computer Engineering - University of Tehran

🏠 Website 〇 Github 🔗 LinkedIn ✉ Email

EDUCATION

B.Sc. in Computer Engineering   Sep 2021 - Present
University of Tehran   *GPA: 18.64/20 (top 10 percent)*

High School Diploma in Mathematics   Sep 2018 - May 2021
Rouzbeh High School   *GPA: 19.56/20 (top 10 percent)*

RESEARCH INTERESTS

- Artificial Intelligence (Machine Learning, Deep Learning, Neural Networks, Natural Language Processing, Algorithmic Recourse)

- Data Science

- Security and Privacy

- Cryptography and Blockchain

CERTIFICATIONS

Machine Learning Specialization (Certificate)   Sep 2023
Coursera - DeepLearning.AI - Stanford University

Machine Learning with Python (Certificate)   Sep 2023
Maktabkhone

Advanced Python Programming (Certificate)   Aug 2022
Maktabkhone

ICDL   Apr 2019
ICDL Institute

Experience

Research Assistant
University of Waterloo
Prof. Amir-Hossein Karimi

Research Assistant
Tehran Institute for Advanced Studies (TEIAS) - Khatam University
Prof. Behnam Bahrak

Teaching Assistant
Artificial Intelligence Course
Prof. Yadollah Yaghoobzadeh and Dr. Hakimeh Fadaei

Teaching Assistant
Engineering Probability and Statistics
Prof. Mostafa Tavassolipour

Teaching Assistant
Introduction to Computing Systems and Programming Course
Prof. Mohammadreza Hashemi and Prof. Hadi Moradi

Teacher
Python and Algorithm Course
Rouzbeh High School

Selected Academic Projects

Star Wars
This project is a simulation of graphical star wars game that a ship tries to eliminate enemies and saves the hostage.

U-Taxi
This project is a simulation of an online taxi service that can be run on local host.

Snake Game
This project is a simulation of graphical snake game that a snake tries to eat mice.

Artificial Intelligence Projects
These projects are AI course projects include: Genetic Algorithm, Reinforcement Learning, Hidden Markov Model, Regression and Classification, Convolutional Neural Networks, and Clustering.

RISC-V Processor
These projects include RISC-V single cycle, RISC-V multicycle, and RISC-V pipeline.

Xv6 Operating System Projects
These projects include some modifications to the Xv6 operating system and we have added some features to this operating system.

Tiny Me
This project is a matching engine for a stock market that we have completed.

Function Craft
Function Craft is a functional programming language that we have designed and implemented in four phases.

Skills

Python, C/C++, HTML/CSS, Verilog/SystemVerilog, Algorithm, Data Structure, Artificial Intelligence, Machine Learning, Neural Networks, Matlab, ICDL, Java, SQL, Database, Compiler, Cryptography, Blockchain, Algorithmic Recourse, LaTeX, Git

Selected University Courses

Advanced Programming: 20/20

Engineering Probability and Statistics: 20/20

Data Structures and Algorithms: 19/20

Algorithm Design: 19/20

Artificial Intelligence: 19.5/20

Data Science: 18.5/20

Cryptocurrencies (Graduate Course): 17.1/20

Languages

Persian (Native)

English