Delaram Rajaei



OBJECTIVE

Curious and dedicated computer engineering student (3.60 GPA) currently attending Amirkabir University of Technology (AUT), voracious desire to learn more about Artificial intelligence and Machine Learning.

EDUCATION

Amirkabir University of Technology (AUT)

Sep, 2018 - Present

B.Sc. of Computer Engineering, IT (8th Semester) | Tehran, Iran Amirkabir University of Technology (AUT) is ranked #647 in Best Global Universities GPA: 3.60/4.00

SELECTED COURSES

Principles of Computational Intelligence: 19.5

Principles and Applications of Artificial Intelligence: 18.35

Robotics: 18.1

Applied Linear Algebra: 16.9

AWARDS & HONORS

- Among top ranked undergraduates, Amirkabir University of Technology, Spring 2022
- Achieved top 2%place among all applicants of the Nationwide University Entrance Exam for B.Sc. in Mathematics and Engineering (Approximately 150000 applicants), Iran, 2018
- Advanced degree in English, Iran language Institute, 2016
- Top 3 Among all students in each Semester in High School, Alavi Highschool

RESEARCH INTERESTS

- Computer Vision
- Natural Language Processing (NLP) In Artificial Intelligence
- Reinforcement Learning
- Machine Learning

ACADEMIC PROJECTS & RESEARCH

Sprinkle: https://github.com/DelaramRajaei/Sprinkle

Winter 2022

- Language: Python
- Estimating the time duration for watering soil
- Used fuzzy logic

SnailJumper-Master: https://github.com/DelaramRajaei/SnailJumper-master

Winter 2022

- Language: Python
- Developed a game which can be played both manual and by neuroevolution algorithm. In this game there is an animal that should try to avoid obstacles and gain score.
- Used neuroevolution algorithm

Inverted pendulum: https://github.com/DelaramRajaei/Inverted-pendulum

Winter 2022

- Language: Python
- Created a pendulum fixing on top of the cart in reverse. The cart can move either left or right with different speed in order to keep the pendulum fixed on top.
- Used fuzzy logic

Fruits Classification: https://github.com/DelaramRajaei/Fruits-Classification

Winter 2022

- Language: Python
- Created a machine recognizing three different fruits.
- Used neural network

Binary puzzle: https://github.com/delaramrajaei/binary-puzzle

Spring 2021

- Language: Python
- Filling a Binary puzzle according to some specific rules. Given N x N puzzle like sudoku but with binary numbers. There are some rules that should be applied before solving each puzzle. The machine can also recognize unsolvable puzzles.

Bringing butter: https://github.com/DelaramRajaei/IDS

Spring 2021

- Language: Java
- Developed a robot choosing the optimal way in order to bring butter to a person on a table. There is a
 table full of obstacles, n butters (at least one) and n people who are waiting around the table to be
 served by the butter. The robot has the responsibility to push the butter to a person with less possible
 moves. It can move in 4 ways, up, down, left and right.
- Implemented iterative deepening depth-first search (IDS) algorithm

Sentiment Analysis: https://github.com/hedzd/sentiment-analysis

Spring 2021

- Language: Python
- Natural language Processing (NLP)
- Deciding if a comment is negative or positive.

Information-Retrieval Project: https://github.com/delaramrajaei/information-retrieval

Spring 2021

- Language: Java
- Created a search engine.
- Used inverted index, tf-idf, max heap in three sections

Theory of machines and languages:

https://github.com/DelaramRajaei/Theory-Of-Machines-and-Languages

Summer 2020

- Language: Java
- · Deciding whether the given state is accepted by DFA or NDFA algorithm

Jpotify: https://github.com/DelaramRajaei/Jpotify

Summer 2019

- Language: Java
- Implemented Spotify. Developed an application for listening to music and can share the name of the song with your friends.

SKILLS

Computer Skills

Programing Languages

Java, C / C++, Python, Racket

Database System

MySQL

Web Development

HTML, CSS, JavaScript, NodeJS, Typescript, Bootstrap4

Operating System

Windows, Linux (Ubuntu)

Miscellaneous

VHDL, Verilog, Boson NetSim, Wireshark, Adobe Photoshop, Word, Excel, SPSS, Java Swing, Postman, Docker, Git, Jira, Pumble, Figma

Language Skills

English

IELTS: To be taken soon.

Persian

Mother tongue (Native)

EXPERIENCE

Teaching experience

- Teacher assistant, Principles of Computational Intelligence
- Teacher assistant Principles of Artificial Intelligence
- Teacher assistant, Software Engineering I
- Teacher assistant, Advanced programming, Java language

Feb, 2022- present

Feb, 2022- present

Sep, 2021- Dec 2021

Sep, 2020- Dec 2020

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Industry experience

Social Sport Startup | Junior Backend Developer

August 2021- Dec 2021

- Software engineer and backend developer
- Developing a sport application using typescript

Hengam Technology Development Co. | Internship

July, 2021- August 2021

- Software engineer and backend developer
- Learned NodeJS and typescript
- Learned how to work with docker

CERTIFICATES

- Dive Into Deep Learning, Adventures with Artificial Intelligence | Amirkabir Artificial Intelligence
 Summer Summit Of 2020's Workshop
- Udemy The Complete NodeJS Developer Course 3rd Edition
- HTML Tutorial and Advanced | W3school
- CSS Tutorial and Advanced | W3school
- Python Tutorial | W3school

ACTIVATES

- Helped on making posters, Students Scientific Chapter (SSC)
- Participated in Linux Festival, Amirkabir University of Technology, Winter 2020
- Participated in ACM Festival, Department of Computer Engineering Amirkabir University of Technology, Fall 2018

HOBBIES

- Watching movies
- Playing piano
- Creating small graphic projects with photoshop

REFERENCES

Name, Professor

Computer Engineering and IT Department, Amirkabir University of Technology Email:

Name, Professor

Computer Engineering and IT Department, Amirkabir University of Technology Email:

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