







Delaram Rajaei

	+98 9199070925		rajaied@aut.ac.ir		rajaiedelaram@gmail.com
	linkedin.com/in/delaram-rajaei		github.com/DelaramRajaei		1661696718

OBJECTIVE

Curious and dedicated computer engineering student (3.58 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: 3.58/4.00

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 that can be played both manually or by a neuroevolution algorithm. In this game, there is an animal that tries to avoid obstacles and gain scores.
- Used neuroevolution algorithm

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

Winter 2022

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

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

Winter 2022

- Language: Python
- Implemented a deep learning model that recognizes and distinguishes three different types of 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 $N \times N$ 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 deliver butter to a person on a table. There is a table full of obstacles, n number of butter slices (at least one), and a corresponding number of people who are waiting around the table to be served by the butter piece(s). The robot has the responsibility to give the butter to a person with fewer 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 NFA algorithm

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

Summer 2019

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

SKILLS

Computer Skills

- **Programming 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

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

ACTIVITIES

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

HOBBIES

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

REFERENCES

- **Amir Kalbasi, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: kalbasi@aut.ac.ir
- **Mohammad Mehdi Ebadzadeh, Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: ebadzadeh@aut.ac.ir
- **Hamed Farbeh, Assistant Professor**
Computer Engineering and IT Department, Amirkabir University of Technology
Email: farbeh@aut.ac.ir
- References available upon request.