

Amirhossein Rajabpour

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[GitHub](#), [LinkedIn](#), [Personal website](#)

[BSc. Transcript until Jul. 2021](#)

Research Interests

- Artificial Intelligence
- Deep Learning
- Time Series Analysis
- Business Analytics
- Financial Markets

Education

BACHELOR OF COMPUTER ENGINEERING | [AMIRKABIR UNIVERSITY OF TECHNOLOGY \(TEHRAN POLYTECHNIC\), TEHRAN, IRAN | 2018 - PRESENT](#)

• GPA: 16.43 / 20 (3.54/4.00) – GPA (last two semesters): 18.40 (4/4)

HIGH SCHOOL DIPLOMA IN MATHEMATICS AND PHYSICS | ALLAMEH TABATABAEI HIGH SCHOOL, TEHRAN, IRAN | 2014 - 2018

• GPA: Pre-University 19.35 / 20 (4/4)
• GPA: High School 19.41 / 20 (4/4)

Technical Skills

- **Programming Languages:** Python, C, Java, Shell Scripting, Octave
- **Operating Systems:** Windows, Linux (Ubuntu)
- **Artificial Intelligence:** Tensorflow, Pytorch, Keras, Scikit learn, Fastai
- **Database Systems:** MySQL
- **Web Development:** Django, HTML, CSS
- **Miscellaneous:** Docker, Jira, Git, Latex, Numpy, Pandas, Plotly, Selenium, Xampp, Wireshark, GNS3, Arduino, Verilog, VHDL

Selected Projects

- **Genetic Algorithm**
 - Implementing genetic algorithm in order to solve Super Mario game
- **Constraint Satisfaction Problems**
 - Implementing CSP Backtracking, Forward Checking and MAC Algorithms in order to solve a binary puzzle
- **Handwritten Digit Recognition from scratch**

- Implementing a neural network from scratch with/without vectorization
- **Fuzzy C-Means Clustering**
 - Implementing the fuzzy version of the K-Means algorithm is implemented. Each data point is not forced to belong only to a specific cluster but can belong to clusters to varying degrees
- **Jpotify**
 - Music player written in Java that can load/save songs, create/edit/delete playlists and connect to another client and share songs
- **Searching Algorithms: IDS, BBFS and A***
 - Implementing searching algorithms like IDS, BBFS and A* from scratch in order to find optimal path. In this program a robot should push a piece of butter to a plate and the robot should do this optimally with no extra moves

*To review my other projects (and their descriptions) check my [Personal website](#)

Teaching Experiences

TEACHING ASSISTANT | MICROPROCESSOR AND ASSEMBLY LANGUAGE | SEP 2021 – PRESENT

- Under the supervisor of [Hamed Farbeh](#), Amirkabir University of Technology
- Defining and grading assignments

TEACHING ASSISTANT | ALGORITHM DESIGN | JAN 2021 – JUN 2021

- Under the supervisor of [Alireza Bagheri](#), Amirkabir University of Technology
- Defining and grading assignments
- Taking quizzes

Working Experiences

DEVOPS ENGINEER INTERN | GRAPH CO. | NOV 2020 – APR 2021

- Provide technological solutions in the field of e-commerce, financial and credit services

Honors & Awards

- Achieved top 1% place among more than 140,000 applicants of the Nationwide University Entrance Exam for B.Sc. in Math. and Physics (2018)

Languages

- **Persian:** Native
- **English:** Professional working proficiency
- **German:** Professional working proficiency (B2)

*To review my projects and grades check my [Personal website](#)