

Navid Dadkhah

Shahid Beheshti University, Tehran, Iran

[Homepage](#) [Email](#) [GitHub](#) [LinkedIn](#)

Education

Shahid Beheshti University

Tehran, Iran

Bachelor of Science in Computer Engineering

Sep. 2020 to Feb. 2025[Expected]

- Cumulative GPA: (3.58/4)
- GPA of last two years: (3.68/4)

Relevant Courses: GPA: 4/4

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|------------------------|-----------------------------------|------------------------------|
| - Software Engineering | - Artificial Intelligence | - Data Structures |
| - Algorithms Design | - Machine Learning | - Statistics and Probability |
| - Software Testing | - Fundamentals of Computer Vision | - Advance Programming |
| - Computer Simulation | - Deep Reinforcement Learning | - Compiler Design |

Salam Iranzamin High School

Tehran, Iran

High School Diploma in Mathematics

Sep. 2017 to Jun. 2020

- Diploma GPA: (4.0/4.0)

Research Interests

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|--------------------------------------|------------------------------------|
| ○ Large Language Models | ○ Software Engineering |
| ○ Natural Language Processing | ○ Low-Resource Language Processing |
| ○ Convolution Neural Network Methods | ○ Deep Reinforcement Learning |

Teaching Assistant Experience

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|--|-----------------------|
| ○ Artificial Intelligence | Sep. 2024 - Present |
| - Lectured by: Dr. Monire Abdoos | |
| ○ Software Engineering | Feb. 2024 - Present |
| - Lectured by: Dr. Mehran Alidoostnia | |
| ○ Computer Vision | Sep. 2024 - Present |
| - Lectured by: Dr. Shahabedin Nabavi | |
| ○ Research and Technical Presentation | Sep. 2024 - Present |
| - Lectured by: Dr. Maedeh Mosharaf | |
| ○ Computational Intelligence | Sep. 2023 - Jan. 2024 |
| - Lectured by: Dr. Shahabedin Nabavi | |
| ○ Advance Programming | Sep. 2021 - Jul. 2023 |
| - Lectured by: Dr. Mojtaba Vahidi-Asl | |
| ○ Compiler Design | Sep. 2023 - Jan. 2024 |
| - Lectured by: Dr. Mehran Alidoostnia | |
| ○ Statistic and Probability | Sep. 2023 - Jan. 2024 |
| - Lectured by: Dr. Farshad Safaei | |
| ○ Introduction to programming | Sep. 2022 - Jan. 2023 |
| - Lectured by: Dr. Sadegh Aliakbary | |
| ○ Computer Architecture | Sep. 2023 - Jan. 2024 |
| - Lectured by: Dr. Dara Rahmati | |
| ○ Operating Systems Laboratory | Sep. 2023 - Jan. 2024 |
| - Lectured by: Dr. Shahabedin Nabavi | |

Work Experience

Python Coding Mentor

Tehran, Iran (remote)

Yasan Academy

Jun. 2023 - Sep. 2023

- Teaching Python language to people who want to learn it from scratch like children or advanced levels such as Data-Analysis tools and libraries.

- Collaborated with a 2-person development team to build a market analysis application
- Front-end developer in the startup, building website with React and application with Flutter.

Projects

- *Lunar Lander with DRL* Jun. 2024
 - Implemented the Lunar Lander problem using Deep Q-Networks (DQN) and Dueling Double DQN (D3QN) architectures to justify the desired location.
 - It is trained in different epochs and generates rewards for each epoch.
- *Persian 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.
- *Restaurant Management Website (Tameshk)* Feb. 2024
 - Developed a web application using Django and React for browsing restaurants, making reservations, and managing user access at different levels (viewers, customers, restaurant admins, and Tameshk admins).
 - Implemented secure routes, Swagger documentation, and SonarQube analysis to ensure security and code quality
- *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.
- *Graph Simulation Project* Jun. 2023
 - Developed simulations and analyzed various graph models (Erdős-Rényi, Watts-Strogatz, Barabási-Albert, bipartite, etc.) to calculate algebraic connectivity, spectral gap, degree distributions, and eigenvalue distributions
 - Created a user-friendly interface with Python's Tkinter to run simulations in Google Colab
- *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. Implemented with Assembly 8086.

[More projects on my Github profile](#)

Honors and Awards

- **Ranked** within the top 3% among 150000 participants (2020 nationwide university entrance exam)

SKILLS

- **Programming Languages:** Python, Java, C/C++, JavaScript, Dart, Assembly, Verilog, VHDL
- **ML/DL Frameworks:** PyTorch, TensorFlow2, Keras, OpenCV, Sickit-Learn, Pandas, Numpy, NetworkX
- **Web Development:** HTML, CSS, React, Flutter, Django, SQL
- **DevOps:** Windows, Ubuntu, Git

Certifications and Workshops

Data Analysis with Python

Instructed by: Joseph santarcangelo

Sep. 2023

IBM | Coursera

Supervised Machine Learning: Regression and Classification

Instructed by: Andrew Ng

Aug. 2023

DeepLearning.AI | Coursera