

# Nima Hosseini Dashtbayaz

Website: [nimahsn.github.io](https://nimahsn.github.io)  
Email: [nimahsnd@gmail.com](mailto:nimahsnd@gmail.com)  
LinkedIn: [nimahsn](#)  
GitHub: [github.com/nimahsn](https://github.com/nimahsn)  
Phone: (+98) 915 383 1909

## Education

<b>Amirkabir University of Technology (among the top 3 universities in Iran)</b> B.Sc. in Computer Science	Tehran, Iran 2018 - 2022 (expected)
<ul style="list-style-type: none"><li>– Overall GPA: 19.02/20 (4/4)</li><li>– Ranked 1<sup>st</sup> GPA in my graduating class</li><li>– Selected Courses: Artificial Intelligence: A+, Linear Optimization: A+, Nonlinear Optimization: A, Numerical Linear Algebra: A+, Compilers: A+, Design and Analysis of Algorithms: A</li></ul>	

  

<b>Imam Reza High School</b> Diploma in Mathematics and Physics	Mashhad, Iran 2014 - 2018
<ul style="list-style-type: none"><li>– Grade: 19.47</li></ul>	

## Research Interests

- Artificial Intelligence
- Machine Learning
- Deep Learning
- Computer Vision
- Reinforcement Learning
- Autonomous Vehicles
- Recommender Systems

## Skills

- Programming Languages: Python, Java, C, R
- Libraries and Frameworks: Keras, TensorFlow, Scikit-Learn, Numpy, Android
- Environments and Tools: Linux, Git, Postman
- Miscellaneous: L<sup>A</sup>T<sub>E</sub>X, Lindo

## Experience

<b>Research Assistant</b> Data Science Innovation Center	Amirkabir University July 2021 - September 2021
<ul style="list-style-type: none"><li>– Supervisor: Dr. Mohammad Akbari</li><li>– Subject: Driver Monitoring with Computer Vision</li><li>– Implemented with Keras, Tensorflow 2, and OpenCV</li><li>– Face Recognition model based on MobileFaceNet for verifying the driver</li><li>– Driver's actions detection model based on MobileNetV3</li></ul>	
<b>Undergraduate Teaching Assistant</b> Faculty of Mathematics and Computer Science	Amirkabir University February 2021 - present
<ul style="list-style-type: none"><li>– Artificial Intelligence - Instructor: Dr. Marjaneh Goodarzi</li><li>– Introduction to the Theory of Computation - Instructor: Dr. Fatemeh Zare Mirakabad</li></ul>	
<b>Chief Editor at Halgheh Journal</b> Students' scientific magazine of Mathematics and Computer Science faculty	Amirkabir University January 2021 - present
<ul style="list-style-type: none"><li>– Chief Editor of the Computer Science section</li><li>– First issue was published in January 2021, and three more have been published since then.</li></ul>	

- Head of Research Committee
- Held interviews with professors and online meetings.

<b>RNS Assistant Team</b> Android Developer at RNS-Assistant health care startup	Amirkabir University July 2019 - May 2020
– Designed and developed Symptom Checker application.	

## Projects

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<b>Recommender System for MovieLens Dataset</b> Artificial Intelligence Course - <a href="#">GitHub</a>	Amirkabir University Spring 2021
– Includes two separate models for collaborative and content-based recommending.	
– Content-based model is based on Autoencoder and trained on movie tags.	
– Collaborative model is based on the AutoRec paper and trained on ratings.	
<b>Nine Men's Morris Game</b> Artificial Intelligence Course - <a href="#">GitHub</a>	Amirkabir University Spring 2021
– Adversarial search using minimax algorithm	
– Alpha-beta pruning	
– Heuristics for estimating utility	
<b>Sudoku Solver</b> Artificial Intelligence Course - <a href="#">GitHub</a>	Amirkabir University Spring 2021
– CSP approach with backtracking algorithm	
– Variable ordering with MRV heuristic	
– Forward Checking	
<b>Leasy: An Android Application for Sharing Educational Content</b> Software Design Course - <a href="#">GitHub</a>	Amirkabir University Fall 2020
– The application was developed with Scrum Methodology.	
<b>Client - Server Model with Shared Memory</b> Operating Systems Course - <a href="#">GitHub</a>	Amirkabir University Spring 2020
– Server and client programs using shared memory	
– The server can handle many clients simultaneously.	
– Implemented in C with pthread and semaphores	

## Honors & Certificates

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<b>Ranked 1<sup>st</sup> Overall GPA in My Class (19.02/20)</b> Computer Science Department, Amirkabir University	September 2018 - present
– Class of 70 students	
<b>Ranked Within the Top 0.8% in Iranian University Entrance Exam</b> Mathematics and Physics majors	July 2018
– Ranked 1103 among 144000 students	
<b>Deep Learning Specialization</b> Certificate on <a href="#">Coursera.org</a>	
– Includes courses on Neural Networks, Deep Learning, Sequence Models, and Computer Vision.	

## **Python for Data Science and Machine Learning Bootcamp**

Certificate on [Udemy.com](#)

- Covers many topics in Data Science, Data Visualization, and Machine Learning.

## **Languages**

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- **Persian:** Native
- **English:** Fluent
  - TOEFL IBT scheduled for October 9th.
  - GRE scheduled for November 10th.