

Nima Hosseini Dashtbayaz

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Education

Amirkabir University of Technology (among the top 3 universities in Iran) Tehran, Iran
B.Sc. in Computer Science 2018 - 2022 (expected)

- Overall GPA: 19.02/20 (4/4)
- Ranked 1st GPA in my graduating class
- Thesis: A Survey of Methods in Unsupervised Visual Domain Adaptation
- Selected Courses: Artificial Intelligence: A+, Linear Optimization: A+, Nonlinear Optimization: A, Numerical Linear Algebra: A+, Compilers: A+, Design and Analysis of Algorithms: A

Imam Reza High School Mashhad, Iran
Diploma in Mathematics and Physics 2014 - 2018
– Grade: 19.47

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^AT_EX, Lindo

Research Experience

A Survey of Methods in Few-Shot Domain Adaptation Amirkabir University
Bachelor Thesis, Faculty of Mathematics and Computer Science September 2021 - present

- Supervisor: Dr. Mohammad Akbari
- A comprehensive survey of methods used in visual domain adaptation, with a focus on few/zero-shot adaptation

Automatic Metric Selection for K-means Amirkabir University
Statistics Laboratory, Faculty of Mathematics and Computer Science September 2021 - present

- Supervisor: Dr. Adel Mohammadpour
- Selecting an efficient metric for the K-means algorithm automatically by recognizing the input distribution

Driver Monitoring Amirkabir University
Data Science Innovation Center, Faculty of Mathematics and Computer Science July 2021 - September 2021

- Supervisor: Dr. Mohammad Akbari
- Implemented with Keras, Tensorflow 2, and OpenCV
- Face Recognition model based on MobileFaceNet for verifying the driver
- Driver's actions detection model based on MobileNetV3

Experience

Undergraduate Teaching Assistant Faculty of Mathematics and Computer Science	Amirkabir University February 2021 - present
– Artificial Intelligence - Instructor: Dr. Marjaneh Goodarzi	
– Introduction to the Theory of Computation - Instructor: Dr. Fatemeh Zare Mirakabad	
Chief Editor at Halgheh Journal Students' scientific magazine of Mathematics and Computer Science faculty	Amirkabir University January 2021 - present
– Chief Editor of the Computer Science section	
– First issue was published in January 2021, and three more have been published since then.	
Students' Scientific Chapter Faculty of Mathematics and Computer Science	Amirkabir University September 2020 - September 2021
– Head of Research Committee	
– Held interviews with professors and online meetings.	
RNS Assistant Team Android Developer at RNS-Assistant health care startup	Amirkabir University July 2019 - May 2020
– Designed and developed Symptom Checker application.	

Projects

Recommender System for MovieLens Dataset Artificial Intelligence Course - GitHub	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.	
Nine Men's Morris Game Artificial Intelligence Course - GitHub	Amirkabir University Spring 2021
– Adversarial search using minimax algorithm	
– Alpha-beta pruning	
– Heuristics for estimating utility	
Sudoku Solver Artificial Intelligence Course - GitHub	Amirkabir University Spring 2021
– CSP approach with backtracking algorithm	
– Variable ordering with MRV heuristic	
– Forward Checking	
Leasy: An Android Application for Sharing Educational Content Software Design Course - GitHub	Amirkabir University Fall 2020
– The application was developed with Scrum Methodology.	
Client - Server Model with Shared Memory Operating Systems Course - GitHub	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

Ranked 1st Overall GPA in My Class (19.02/20)

Computer Science Department, Amirkabir University

September 2018 - present

- Class of 70 students

Ranked Within the Top 0.8% in Iranian University Entrance Exam

Mathematics and Physics majors

July 2018

- Ranked 1103 among 144000 students

Deep Learning Specialization

Certificate on [Coursera.org](#)

- 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

• **Persian:** Native

• **English:** Fluent

- TOEFL IBT scheduled for October 9th.
- GRE scheduled for November 10th.