

Arash Asgari Mendejin

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🎂 Birthdate:	1999.06.08	☎ Phone:	+98 912 898 4680
🏠 Nationality:	Iranian	🌐 GitHub:	https://github.com/arashasg
		Gender:	Male

Education

Sep 2021–Present	MSc, Software Engineering, Sharif University of Technology, Member of Intelligent Software Engineering Lab Supervisor: Dr. Abbas Heydarnoori
Sep 2017–Sep 2021	BSc, Software Engineering, K.N. Toosi University of Technology, Cumulative GPA: 19.04/20 (US CGPA: 3.99/4), Ranked 1st in class of 75. BSc Thesis: Monocular 3D vehicle Tracking on Road Scenes Supervisor: Dr. Behrooz Nasihatkon Referee: Dr. Hamid Abrishami Moghaddam Selected Courses: Fundamentals of Computer Vision, Fundamentals of Speech and Language Processing, Linear Algebra, Engineering Probability, Engineering Mathematics, Numerical Analysis, Data Structures, Principles of Database Design, Assembly and Machine Languages(all grades 20/20) System Analysis and Design(19.57/20), Algorithm Design(19.5/20), Signals and Systems(18.5/20)
2016–2017	Pre-University, GPA:20/20 Allame Helli Pre-university School in Tehran
2013–2016	Secondary School, GPA: 19.66/20 Allame Helli Highschool in Tehran

Fields of Interests

General	Software Engineering, Artificial Intelligence, Computer Vision, Machine Learning, Natural Language Processing.
Specific	Software Repository Mining, Crowdsourcing, 2D & 3D Object Detection and Tracking, Medical image Segmentation, Generative Models like VAEs and GANs.

Publications

2022	Intelligently Assessing Jupyter Notebooks' Code Understandability Empirical Software Engineering Journal Status: Submitted
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Honors and Awards

Sep 2020–July 2021	Dean's List fourth year of study.
Sep 2018–July 2019	Dean's List second year of study.
Sep 2018–July 2020	Excellent Students Scholarship , from Kanoon Farhangi Amoozesh.
Sep 2017–July 2021	Full Tuition Fee Waiver , from K. N. Toosi University of Technology.

Academic Experience

Spring 2022	Teaching assistant, System Analysis and Design , Sharif University of Technology, Instructor: Dr. Heydarnoori
Fall 2020	Teaching assistant, Advanced Programming with Java , KNTU, Instructors: Dr. Mehdi Esnaashari, Mahdi Zamanian
Fall 2019	Teaching assistant, Algorithms , KNTU, Instructor: Dr. Ali Ahmadi

Language

Farsi (Native), English (Professional Proficiency)

TOEFL iBT

september-4 2021 **Total: 112** | Reading:30 | Listening:30 | Speaking:24 | Writing:28

Technical Skills

Languages	Python, Java, C++, Javascript, Typescript.
Libraries	Keras, Tensorflow, Pytorch, OpenCV, scikit learn, Numpy, MNE, Braindecode, Matplotlib, Seaborn, Reactjs.
Programming	Object Oriented and Functional Programming, OOP Design Patterns.
Natural Language Processing	Text Categorization, Text Summarization, Text Generation, Machine Translation, Spelling Suggestion
Image Processing	Morphological Operations, Image Transformation and Registration.
Computer Vision	Real-time Multiple Object Detection and Tracking, Background Subtraction, Feature Extraction and Matching, Camera Calibration and Geometry.
Linux Distros	Ubuntu.
Concepts	Version Control Systems such as Git and GitHub, Agile Project Management with Scrum, Dynamic Programming, REST Web Services, MLOps.
IDEs	VScode, Pycharm, IntelliJ IDEA.

Projects

Related coursework projects

January 2022	Persian News Summarizer Natural Language Processing
January 2022	Persian Spelling Correction Natural Language Processing
January 2021	Soccer player detection and classifying them into two teams using background subtraction, morphological transforms, and Deep learning models. Fundamentals of Computer Vision.
June 2020	Otimized Matrix Operations Digital System Design
June 2019	Implementing Voronoi diagram using Java Algorithm Design.
January 2019	Image blending using x86 Assembly Assembly and Machine Language

Personal projects

November 2021	Seizure Detection using FCN and LSTM models.
September 2021	3D vehicle Tracking using Optical Flow and Geometry constraints.
January 2021	The colorectal nuclear image segmentation using U-net.

Work Experience

May 2021-July 2021 Computer Vision Intern at AImedic, Iran.

July 2021-Now Machine Learning Engineer at AImedic, Iran.

Mostly worked at EEG data preprocessing section and implementing preprocessing modules like applying filters and windowing.

Certificates

Verified certificates from Coursera online MOOC platform.

August 2020 Machine Learning | Stanford University.

August 2020 Hyperparameter tuning, Regularization, and Optimization | deeplearning.ai.

August 2020 Convolutional Neural Networks | deeplearning.ai.

August 2020 Structuring Machine Learning Projects | deeplearning.ai.

August 2020 Neural Networks and Deep Learning | deeplearning.ai.

Audits

December 2020 Introduction to Computer Vision | Georgia Tech | Udacity Online Platform

December 2020 Convolutional Neural Networks for Visual Recognition | Stanford University