

Arash Asgari Mendejin

✉ E-Mail:	arash.asgari.m@gmail.com	📍 Address:	No.13, Beheshti Alley, Nاستاران St., Marzdaran Blvd., Tehran, Tehran 1461993915, Iran
🎂 Birthdate:	1999.06.08	☎ Phone:	+98 912 898 4680
🏳️ Nationality:	Iranian	🌐 GitHub:	https://github.com/arashasg
🌐 Website:	arashasg.github.io	♂ 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)

Fields of Interest

General Natural Language Processing, Software Engineering, Artificial Intelligence, Computer Vision, Machine Learning.
Specific AI Fairness, Natural Language Representation Learning, Natural Language Summarization, Mining Software Repositories, 2D & 3D Object Detection and Tracking, Medical image Processing.

Publications

2023 Intelligently Assessing Jupyter Notebooks' Code Understandability
Status: Submitted

2023 QualBook: A Dataset of Quality Features Extracted from Kaggle's Jupyter Notebooks
Status: Under Submission

Academic Experience

Fall 2022 Teaching assistant, **Database Systems**, Sharif University of Technology,
Instructor: Dr. Mojtaba Mostafavi

Spring 2022 Teaching assistant, **System Analysis and Design**, Sharif University of Technology,
Instructor: Dr. Abbas 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, NLTK.
Programming	Object Oriented and Functional Programming, OOP Design Patterns ,Software Architecture 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

	Natural Language Processing		EEG signal and Medical Image Processing
Spring 2022	Persian News Summarizer	Fall 2021	EEG net Implementation
Spring 2022	Persian Spelling Correction	Summer 2021	The colorectal nuclear segmentation
Spring 2022	Sentiment Analysis on News Articles	Summer 2021	Epileptic Seizure Detection
	Data Mining		Computer Vision and Image Processing
Spring 2022	BFS using Spark and Map-Reduce	Spring 2020	3D Vehicle Tracking
Spring 2022	Data Stream Mining	Spring 2020	Hough Transform
Spring 2022	Movie Recommendation System	Spring 2020	Ransac Sift Matching Alignment
Spring 2022	LSH implementation	Spring 2020	Sift Matching and Detection

Honors and Awards

Sep 2018–July 2021	Dean's List Second and fourth 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.

Work Experience

May 2021–November 2021	Computer Vision Intern at Almedic, Iran. Mostly worked at EEG data preprocessing section and implementing preprocessing modules like applying filters and windowing.
January 2022–September 2022	Machine Learning Developer at Iranian Telecommunication Company Designed an EEG-based Brain-Computer Interface for an Smart Home application.