

## EDUCATION

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### Worcester Polytechnic Institute

Master of Computer Science

[Ranking] [website] Worcester, MA, USA

2023–current

### University of Mohaghegh Ardabili

Bachelor of science in computer engineering

[Times Ranking] [website] Ardabil, Ardabil, Iran

2018–2022

- Cumulative **GPA: 3.8/4** (18.25/20) - till now via 145 credits
- **Ranked 2<sup>th</sup>** cumulative GPA within the **top 5% of graduating** class (among 41 students)

## RESEARCH INTERESTS

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3D vision, Deep Learning, Machine Learning, NLP, Computer Vision

**Computer Vision** : Mobile vision, 3D vision, Object detection, Image Classification, Image Segmentation, and Object Tracking.

**Natural Language Processing** : Visual Description, Image Captioning, Text-to-Image Generation

## PUBLICATIONS

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1. **A. Ganj**, M. Darvish, M. EbadPour, H. Bahador “LR-Net: A Block-based Convolutional Neural Network for Low-Resolution Image Classification”, *Iranian Journal of Science and Technology, Transactions of Electrical Engineering*, Oct 2022 (Accepted) [arXiv] [Code]

## TEACHING ASSISTANT

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<b>Data structure and Algorithm</b> : The department of computer engineering	Fall 2021
Instructor : Masumeh Kheyri	
<b>Software engineering</b> : The department of computer engineering	Fall 2021
Instructor : Ahmad Taghinejhad	
<b>Discrete Mathematics</b> : The department of computer engineering	winter 2021
Instructor : Masumeh Kheyri	

## PROJECTS

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See full list of projects on [github.com/AshkanGanj](https://github.com/AshkanGanj)

- **Instance Segmentation with Mask R-CNN (Python, Keras, Tensorflow, 2021)**
  - Fine-tuned and implemented Mask R-CNN on a specific category collected from OpenImages data [Github]
- **CIFAR-10 classification (Python, Keras, 2021)**
  - classify 50000 images in 10 classes with CNN [Github]
- **Pneumonia Detection (Python, Keras, 2021)**
  - classify x-ray images with a custom CNN [Github]

## HONORS & AWARDS

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- Awarded **distinguished student** in the department of electrical and computer engineering 2018–current
- **Ranked 2<sup>th</sup>** in Ardabil programming contest May–2019
- **Top 2 %** in the Iranian national university entrance exam among **300,000** participants. june–2018

## SKILLS

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- **Programming Languages:**  
Python, C++, TypeScript, JavaScript
- **Machine learning and Deep learning:**  
Tensorflow, Scikit-learn, Matplotlib, Pandas, Numpy, Jupyter-Notebook
- **Databases:** PostgreSQL, MySQL
- **Operating System:** Microsoft Windows, Debian GNU/Linux
- **Front-end:** Angular, Html, CSS
- **Back-end:** Django, Flask

## LANGUAGES

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- **Persian:** Native
- **Turkish-Azari:** Native
- **English:** IELTS : 6.5 (R : 7, L : 7, S : 6, W : 6.5)

## TECHNICAL EXPERIENCE

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### Access Endless Communication(AEC)

Front-end Developer- Internship

[website] - Tehran  
August 2020 - march 2021

## COURSES

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### Deep Learning Specialization

Authorized by DeepLearning.AI and offered through Coursera  
Instructor: Andrew Ng

[Certificate]  
2021

- Neural Networks and Deep Learning [Certificate]
- Hyperparameter Tuning, Regularization and Optimization [Certificate]
- Structuring Machine Learning Projects [Certificate]
- Convolutional Neural Networks and Sequence Models [Certificate]
- Sequence Models [Certificate]

### Machine Learning

Offered by Stanford University through Coursera  
Instructor: Andrew Ng

[Certificate]  
2020–2021