

EDUCATION

Worcester Polytechnic Institute

Master of Science in 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 2th** cumulative GPA within the **top 5% of graduating** class (among 41 students)

RESEARCH INTERESTS

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

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

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

PROJECTS

See full list of projects on 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

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

SKILLS

- **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

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

TECHNICAL EXPERIENCE

Access Endless Communication(AEC)

Front-end Developer- Internship

[website] - Tehran
August 2020 - march 2021

COURSES

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