

## EDUCATION

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### University of Mohaghegh Ardabili

Bachelor of science in computer engineering

[Times Ranking] [website] Ardabil, Ardabil

2018–2022 (Expected)

- Cumulative **GPA: 3.72/4** (17.82/20) - till now via 108 credits
- **Ranked 3<sup>th</sup>** cumulative GPA within the **top 5% of graduating** class (among 41 students)

## RESEARCH INTERESTS

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Deep Learning , Machine Learning, Reinforcement learning, Data Mining, Visualization

**Computer Vision** : Image Processing, Object detection, Image Classification, image Segmentation, Object Tracking, Motion Analysis, Human Activity Tracking

**Robotics** : Motion Planning, Learning and Classification, Vision-aided Navigation

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

## HONORS & AWARDS

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- Awarded **distinguished student** in the department of electrical and computer engineering 2018–current
- **Ranked 3<sup>th</sup>** in Ardabil programming contest May–2019
- **Top 2 %** in the Iranian national university entrance exam among **300,000** participants. june–2018

## PUBLICATIONS

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1. **A. Ganj** and Y. Shokri, “Solving N-puzzle Problem by A\* Algorithm and a New Heuristic Function”, *Journal of Experimental Theoretical Artificial Intelligence*, September 2021 (Under Review)
2. **A. Ganj**, M. Darvish, and M. poramini “Art Generation in Deep Learning: A Survey”, Oct 2021 (In preparation)

## 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 implement Mask R-CNN on a certain 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]

## TEACHING ASSISTANT

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**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

## 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

[\[website\]](#) - Tehran

2020-2021

### Captain Team

Front-end Developer

[\[website\]](#) - California

2020-2021

### University of Mohaghegh Ardabili

Full-Stack Developer

Ardabil, Ardabil

2018-2019

## 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

## REFERENCES

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### Shahram Jamali

- Professor - Faculty Member - The department of Electrical and Computer Engineering  
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### Hamid Bahador

- Associate Professor - Faculty Member - Department of Electrical and Computer Engineering  
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