Ashkan Ganj

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🔗 Website

EDUCATION

Worcester Polytechnic Institute [Ranking] [website] Worcester, MA, USA
Master of Science in Computer Science 2023–current

University of Mohaghegh Ardabili [Times Ranking] [website] Ardabil, Ardabil, Iran
Bachelor of science in computer engineering 2018–2022

- Cumulative **GPA: 3.8/4** (18.25/20) - till now via 145 credits
- **Ranked 2 [th]** 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 Fall 2021
Instructor : Masumeh Kheyri

Software engineering : The department of computer engineering Fall 2021
Instructor : Ahmad Taghinejhad

Discrete Mathematics : The department of computer engineering winter 2021
Instructor : Masumeh Kheyri

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)   [website] - Tehran
Front-end Developer- Internship   August 2020 - march 2021

Courses

Deep Learning Specialization   [Certificate]
Authorized by DeepLearning.AI and offered through Coursera   2021
Instructor: Andrew Ng

- – 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   [Certificate]
Offered by Stanford University through Coursera   2020–2021
Instructor: Andrew Ng