

Mahyar Sadeghi

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Github:

Education

Sept.2016 - 2021 University of Mohaghegh Ardabili ,Iran ,Ardabil

B.Sc. Computer engineering

GPA: 16.57/20.00 (US System: 3.32 / 4.0)

Sept.2021 – present Universita degli studi di Genova

Msc. Computer Science (Data Science and Artificial Intelligence)

- Machine Learning: 23/30
- Digital Signal and Image Processing: 28/30
- Large Scale computing: 28/30
- Speech Recognition: 28/30
- Advanced Machine Learning: 25/30
- Computer Vision: 28/30

Research Interests

- Reinforcement Learning
- Machine Learning
- Computer Vision
- Brain-Inspired Artificial Intelligence
- Information Theory
- Medical Image Processing
- Computational Neuroscience

Publications

- Deep-based Persian road surface marking classifier. Mahyar Sadeghi, Mohsen Ebadpour, and Seyed Hamid Safavi (Submission Step)
- Using deep learning networks for classification of lung cancer in CT images. Mohammad Ali Javadzadeh Barzak, mohammad neghareh, jafar abdollahi, maryam salimi, asma salmani, rona jannati, mohsen mohammadi, hasan ghobadi, hadi zolfeghari, mahyar sadeghi, ali samadzadeh, firouz amani (Submission Step)

Books

- Glasses- A Scientific Vision to the Reality (2021 in Persian language)

Languages

- Azerbaijani (Mother tongue)
- Fluent In English (IELTS: Overall: 6.5- (Reading:7.5, Writing:6.0, Speaking:6.5, Listening:6.0))
- French (Intermediate)

- Persian (Official language)

Academic Experiences and Courses

- Proposed 4 new **Deep Neural Network Architectures** (To recognize the symbols in surface of Persian roads with application of **Data Augmentation**)
- Proposed new method to compute **2D and 3D Fractal Dimension** in digital images and videos
- Proposed a new method to automate the procedure of **Foreground Detection** in images using a deep-based model
- Shot Detection using **Support Vector Machine** and **Decision Tree**
- Implemented **Deep Learning** in C++ (Forward and Back Propagation for CNNs and Fully Connected Layers as specialized project)

Teaching Experience

- Advanced Programming as TA
- Data Structure as TA
- Android programming as workshop in University of Mohaghegh Ardabili ("Introduction to java and android programming")
- Android as workshop in medical science university of Ardebil ("Introduction to java and android programming")
- Experience of teaching English

Programming Languages

- Python
- C++
- Go
- Dart
- Java

Frameworks

- Keras- GPU version
- Tensorflow- GPU version
- Torch – GPU version
- Skimage
- Scikit-Learn
- Pyspark
- Matplotlib
- Opencv (For python and C++)
- Flutter (For developing mobile applications)
- Echo , Mongo Driver and Gorm (For developing web applications using Golang)
- Android
- Django

Practical Experiences

- 15 months experience of working as **AI expert** , mobile application developer and also web developer in AEC

- Six months experience of developing an **AI-Based Lung Cancer Recognition** as AI expert in Ardabil University of Medical Science
- Experience of developing an API to edit face expressions using **GANs**
- **Deep-Based Corona Virus Detection**
- Image denoising system using **Auto-Encoder**
- Car recognition denoising system using **Cycle-Spinning** algorithm and **YOLO** object detection model (version 3)
 - Traffic noise reduction system (**PUBLISHED AS A PAPER**)
- API to cluster points of a map (using **K-means**)
- **Foreground Detection** of images using **OpenCv (C++)** and **Golang (CGo)** based on **Grab-Cut** algorithm
- Developer of a game using **Flutter**
- Developer of an educational-medical mobile application for pregnant women using **Flutter**

Familiar with(Theories, Databases and OS)

- SUMO- Traffic Simulator
- Information Theory
- Linux- Ubuntu
- Docker
- Mysql
- Recurrent Neural Networks
- Auto-Encoders
- Generative Adversarial Networks
- Computational Neuroscience and Cognitive Modeling
- Data Augmentation
- Mongo DB and SQL
- Large Scale Computations

Awards and Honors

- First student among 26 students since 2016 at UMA
- 3rd position in programming competition in Ardabil province
- Second best student in high school (19.52 / 20.0)
- First student in final written exams of high school (Final grade : 19.03/20.0)

Other Interests

Swimming, Writing, Video Editing (Adobe Premier Pro), Astronomy, and Physics