



CONTACT

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in Amin

SKILLS

Programming

Python ●●●●●●
C++ ●●●●●●
Matlab ●●●●●●
C# ●●●●●●
Node.js ●●●●●●

Tools & Libraries

Computer Vision ●●●●●●
(OpenCV, Scikit-Image, ITK)
Deep Learning ●●●●●●
(PyTorch, TensorFlow, Keras)
Data handling ●●●●●●
(NumPy, SciPy, pandas)

Languages

Persian • Native
Turkish • Native
English • IELTS to be taken

EDUCATION

IUST - Iran University of Science and Technology

M.Sc. In Computer Engineering Major : Artificial Intelligence

Tehran, IR

09/2019 - 08/2022

- Supervised by Dr. Mohsen Soryani
- Thesis: Mass detection and segmentation in Automated Breast Ultrasound (ABUS) images
- CGPA : 3.53/4

Tabriz University

B.Sc. In Computer Engineering Major : Information Technology

Tabriz, IR

09/2014 - 08/2018

- Supervised by Dr. Seyed Naser Razavi
- Thesis: Music Genre Recognition with CNNs
- CGPA : 3.2/4

RESEARCH INTERESTS

- Computer Vision
- Medical Image Analysis
- Interpretability of Deep Models

PUBLICATIONS

Cancer Detection in Automated 3-D Breast Ultrasound Using a Patch Bi-ConvLstm Network

👤 A. Malekmohammadi, S. Barekatrezaei, E. Kozegar and M. Soryani

📅 2022 📖 Ultrasonics 🔗 pdf

Mass Detection in Automated 3-D Breast Ultrasound Using an improved Inception 3D U-net

👤 S. Barekatrezaei, A. Malekmohammadi, E. Kozegar and M. Soryani

📅 2022 📖 JMWIP 🔗 pdf

RESEARCH EXPERIENCE

Graduate Research Assistant

CV Lab, IUST

08/2022 - present

- Working on ABUS mass classification
- Supervised by Dr. Mohsen Soryani

SELECTED PROJECTS

Video Augmented Reality

Keypoints of each video frame extracted with Harris corner detector and tracking performed with Lucas-Kanade algorithm

Sentiment Analysis

A study on performance of different word embedding techniques (e.g. BOW, Word2Vec and BERT) with several classifiers (e.g. Support Vector Machines, Naive Bayes, Decision Tree and Random Forests)

Implementation of Boosting Algorithms for Dealing with Data Imbalance

AdaBoost.M2, SmoteBoost, RUSBoost and RBBBoost.

Implementaion of Various Deep Models

YoloV5-face (realtime face detection), Super Resolution GAN (SRGAN), Gated Convolution for image inpainting and Residual Dense Blocks for image Restoration.