

AMIRHOSSEIN AMINIMEHR

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EDUCATION

Master of Artificial Intelligence, School of Computer Engineering, Iran University of Science and Technology
([Iran top 4](#)) 2020 - Present

GPA: 4.0 (19.53/20)

Selected Courses: Machine Learning, Deep Learning, Neural Networks, Pattern Recognition, Image Processing, Natural Language Processing, Multi Agents

Supervisor: ([Dr. Sauleh Eetemadi](#))

Bachelor of Computer Engineering, School of Computer Engineering, Iran University of Science and Technology
([Iran top 4](#)) 2016 - 2020

GPA: 3.769 (18.00/20)

Selected Courses: Artificial Intelligence, Signals and Systems, Computer Game Design, Software Engineering, Computer Networks, Computer Security, Database Design

Supervisor: ([Dr. Nasser Mozayani](#))

PUBLICATIONS

Ehsan Khodapanah Aghdam, Reza Azad, Atlas Hadaddi Avval, **Amirhossein Aminimehr**, Sania Eskandari, Alaa Sulaiman, Dorit Merhof - 2023. Medical Image Segmentation: A Survey on Imaging Modalities and Benchmarks. **IEEE Journal of Biomedical and Health Informatics**. (To be submitted)

Amirali Molaei, **Amirhossein Aminimehr**, Armin Tavakoli, Amirhossein Kazerouni, Babak Azad, Reza Azad, Dorit Merhof - 2023. Implicit Neural Representation in Medical Imaging: A Comparative Survey. **ICCV CVAMD 2023**. (Submitted)

Amirhossein Aminimehr, Amirali Molaei, Erik Cambria - 2023. Entri: Ensemble Learning with Tri-Level Representations for Explainable Scene Recognition. **Pattern Recognition**. (In review process) ([Link](#))

Amirhossein Aminimehr, Pouya Khani, Amirali Molaei, Amirmohammad Kazemeini, Erik Cambria - 2023. TbExplain: A Text-Based Explanation Method for Scene Classification Models with the Statistical Prediction Correction. **Expert Systems with Applications**. (In review process) ([Link](#))

Amirhossein Aminimehr, Amin Aminimehr, Hamid Moradi Kamali, Sauleh Eetemadi - 2023. Stock Market Dynamics Through Deep Learning Context. **Mathematics**. (To be submitted)

Amin Aminimehr, Ali Raoofi, Akbar Aminimehr, **Amirhossein Aminimehr** - 2022. Tbexplain: A comprehensive study of market prediction from Efficient Market Hypothesis up to late intelligent market prediction approaches. **Computational Economics - Springer**. (Published) ([Link](#))

Amin Aminimehr, **Amirhossein Aminimehr**, MohammadJalal Pouromid, Arman Yekkehkhani - 2021. A Time Step Cascade CNN-LSTM Neural Network for predicting adjusted close price of 5 largest firms in Tehran Stock Exchange. **3rd International Conference on Interdisciplinary Studies in Management Engineering (ICISME-2021)**. (Published) ([Link](#))

Amin Aminimehr, Ali Raoofi, Akbar Aminimehr, **Amirhossein Aminimehr** - 2020. The role of Feature Engineering in prediction of Tehran Stock Exchange Index based on LSTM. **Iranian Journal of Economic Studies - Shiraz**

University. (Published) ([Link](#))

TEACHING EXPERIENCE

Natural Language Processing (Teacher Assistant of Dr. Behrouz Minaei-Bidgoli) Iran University of Science and Technology	Spring 2023
Natural Language Processing (Teacher Assistant of Dr. Behrouz Minaei-Bidgoli) Iran University of Science and Technology	Fall 2022
Mobile Networks (Teacher Assistant of Dr. Abolfazl Diyanat) Iran University of Science and Technology	Fall 2022
Neural Networks (Teacher Assistant of Dr. Naser Mozayani) Iran University of Science and Technology	Fall 2021
Database Design (Teacher Assistant of Dr. Eisa Zarepour) Iran University of Science and Technology	Fall 2019
Computer-Aided Design (Teacher Assistant of Dr. Hajar Falahati) Iran University of Science and Technology	Spring 2018
Discrete Mathematics (Teacher Assistant of Dr. Mehrdad Ashtiani) Iran University of Science and Technology	Fall 2018
Computer Architecture (Teacher Assistant of Dr. Hakem Beitollahi) Iran University of Science and Technology	Fall 2018
Logic Circuits (Teacher Assistant of Dr. Hakem Beitollahi) Iran University of Science and Technology	Spring 2017

WORK EXPERIENCE

Backend Developer (NodeJS) Rectified.ai	May 2020 - December 2020
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INTERNSHIP

Knowledge Based Firm Cloud Computing Center of Iran University of Science and Technology	January 2020 – May 2020
Frontend Developer Intern (React) Knowledge Based Firm	July 2017 – October 2017

PROFESSIONAL ACTIVITIES

Journal Reviewer Knowledge-Based Systems	September 2022 – Present
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SKILLS SUMMARY

Languages and Softwares: Python(TensorFlow/PyTorch), C++, C, Java, JavaScript, MATLAB, SQL, Verilog, VHDL, AVR, Arduino

Frameworks: React, Django, Unity

HONOR AND AWARDS

- Membership of Iran's National Elites Foundation

- Rank 2 among 30 students at School of Computer Engineering, Iran University of Science and Technology 2020 Master Entries for Artificial Intelligence Branch
- Rank 2 among 68 students at School of Computer Engineering, Iran University of Science and Technology 2016 Bachelor Entries for Computer Engineering
- Direct Admission for Master's and PhD studies, Iran University of Science and Technology, 2019 and 2022
- Rank 2000 among more than 182,000 participants at Iranian National Universities Entrance Exam
- Acceptance to High School of The Shining Talents of Iran
- Acceptance to Math Olympiad Of Iran 2013
- 2th place within 25 teams at Iran University of Science and Technology ACM competition
- Skipped One grade of Elementary School as an Exceptional Talent in 2009
- Second place in the Tehran city chess competition 2011

RESEARCH INTERESTS

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| • Scene Recognition | • Computer Vision |
| • Explainable Artificial Intelligence | • AI in Medical Imaging |
| • Image Processing | • AI in Stock Prediction |