

# AMIRHOSSEIN AMINIMEHR

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## EDUCATION

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**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

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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**. (Accepted) ([Link](#))

**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](#))

## RESEARCH INTERESTS

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- Computer Vision
- Scene Recognition
- Explainable Artificial Intelligence
- Object Detection
- Semantic Segmentation
- GANs
- AI in Medical Imaging
- AI in Stock Prediction

## TEACHING EXPERIENCE

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

## WORK EXPERIENCE

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Backend Developer (NodeJS) <a href="#">Rectified.ai</a>	May 2020 - December 2020
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## INTERNSHIP

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Cloud Engineer <a href="#">Cloud Computing Center of Iran University of Science and Technology</a>	January 2020 – May 2020
Frontend Developer Intern (React) Knowledge Based Firm	July 2017 – October 2017

## PROFESSIONAL ACTIVITIES

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

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

**Frameworks:** React, Django, Unity

## **HONOR AND AWARDS**

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- 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

## **ONLINE COURSES**

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- Machine Learning, Coursera-Stanford University
- Neural Networks and Deep Learning, Coursera-DeepLearning.AI
- Cyber Threats and Attack Vectors, Coursera-University of Colorado System
- Django Framework, Iran University of Science and Technology

## **ACADEMIC PROJECTS**

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- Deep Reinforcement Learning for Flappy Bird Game
- Enhanced CycleGAN
- Detecting Saffron in the Corcus Flower with EfficientDet Model
- Robust CNN model against fooling
- Tank War Game