

Poorya MohammadiNasab

M. Sc. student in Artificial Intelligence,
Iran University of Science and Technology

Contact

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Research Interests

Computer Vision Deep Learning	Medical Image Analysis Machine Learning	Image Processing Feature Selection
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Education

M. Sc. in Artificial Intelligence

Sep. 2021 – Present | Tehran, Iran

Iran University of Science and Technology (IUST) ^[QS ranking]
CGPA: **17.56 / 20 (3.75 / 4)**

Selected Courses

Computer Vision (20 / 20)	Medical Image Analysis (18.2 / 20)	Deep Learning (18.48 / 20)
Machine Learning (17 / 20)	Image Processing (17.9 / 20)	Artificial Neural Networks (18.5 / 20)

Master's Thesis

A self-supervised method for tumor detection in 3D automated breast ultrasound (ABUS) images ([Ongoing](#))
Supervisor: [Dr. Mohsen Soryani](#)

B. Sc. in Computer engineering

Sep. 2017 – Sep. 2021 | Kashan, Iran

University of Kashan ^[U.S. News ranking]
CGPA: **17.33 / 20 (3.55 / 4)**

Selected Courses

Artificial Intelligence (20 / 20)	Data Mining (20 / 20)	Computational Intelligence (20 / 20)
Signals and Systems (18.4 / 20)	Internet of Things (19.5 / 20)	Design of Algorithms (17.5 / 20)

Bachelor's Thesis

Medical image analysis: An overview of techniques and improvements in brain tumor segmentation using image processing algorithms - University of Kashan (2021) - [dx.doi.org/10.13140/RG.2.2.16553.52324](https://doi.org/10.13140/RG.2.2.16553.52324)
Supervisor: [Dr. Hossein Ebrahimpour](#)

Publications

1. B. Samieiyan, [P. MohammadiNasab](#), M. A. Mollaei, F. Hajizadeh, and M. Kangavari, "Novel optimized crow search algorithm for feature selection," [Expert Systems with Applications](#), vol. 204, p. 117486, Oct. 2022, doi.org/10.1016/j.eswa.2022.117486.
2. B. Samieiyan, [P. MohammadiNasab](#), M. A. Mollaei, F. Hajizadeh, and M. Kangavari, "Solving dimension reduction problems for classification using Promoted Crow Search Algorithm (PCSA)," [Computing](#), vol. 104, no.6, pp.1255–1284, Jan. 2022, doi.org/10.1007/s00607-021-01037-2
3. T. Tan, C. Lu, L. Yu, T. Zhang, [P. MohammadiNasab](#), H. Zhang, M. Soryani, R. Mann, E. Kozegar, L. Bao, "Charting the Path Forward: AI's Impact on Breast Imaging—An In-Depth Review of Reader Studies and Future Insights," [Artificial Intelligence Review](#) (Under review)

Honors

1. Top **2%**, [Iranian university entrance exam](#) for master's degree in Computer Engineering – Artificial Intelligence, **Ranked 171th** among nearly 10,000 participants, [September 2021](#)
2. Top **10%**, Achieving one of the highest GPAs among all university Computer Engineering **undergraduate** students, **Ranked 4th** among 45 undergraduate students, [February 2021](#)

Languages

Persian: Native

English: Proficient (C1)

- **IELTS Results (Overall: 7,** Listening: **7.5,** Reading: **7.5,** Speaking: **6,** Writing: **6)**

Research Experience

Reviewer at Expert Systems with Applications journal (View Certificate)	May 2022 – Present United Kingdom
Reviewer at Medical Image Analysis journal (View Certificate)	May 2023 – Present Netherlands
Reviewer at Computer Methods and Programs in Biomedicine (View Certificate)	Mar. 2023 – Present Ireland
Reviewer at Pattern Recognition journal (View Certificate)	Nov. 2023 – Present United Kingdom
Reviewer at Applied Soft computing journal (View Certificate)	Aug. 2023 – Present Netherlands
Reviewer at Computers in Biology and Medicine journal (View Certificate)	Jan. 2024 – Present United Kingdom
Reviewer at Computational and Structural Biotechnology (View Certificate)	Mar. 2024 – Present Sweden

Work Experience

Research Assistant Image Processing Lab (IPL), Iran University of Science and Technology (IUST) Supervisor: Dr. Mohsen Soryani	Sep. 2021 – Present Tehran, Iran
Teaching Assistant Iran University of Science and Technology (IUST) Courses <div>1. Pattern Recognition (Dr. Mohammad Reza Daliri) 3. Artificial Neural Network (Dr. Nasser Mozayani)</div>	Sep. 2022 – Jan. 2023 Tehran, Iran
Teaching Assistant University of Kashan Courses <div>1. FPGA and ASIC (Dr. Hossein Karimiyan) 3. Microprocessors (Dr. Hosein Sabaghian) 5. Logic Circuits (Dr. Salman Goli)</div>	Feb. 2018 – Jun. 2021 Kashan, Iran
<div>2. Computer Vision (Dr. Mohsen Soryani) 4. Computer Architecture (Dr. Salman Goli) 6. Advanced programming (Dr. Mahsa Shamaee)</div>	

Skills

Concept and Technology

Computer Vision	Medical Image Analysis	Image Processing	Deep Learning
Machine Learning	PyTorch / Keras	OpenCV	Feature Selection
Git / GitHub	Linux	Data Mining	FPGA

Language and Software

Python	C/C++	MATLAB	R
LaTeX	Verilog	QT framework	Arduino

Projects

Pneumonia Detection Using Deep Convolutional Neural Networks View Project	Aug. 2023 – Sep. 2023
Breast Tumor Segmentation and Shape Classification in Mammograms View Project	Feb 2022 - Jul. 2022
Brain Tumor Segmentation View Project	May 2021 - Sep. 2021
Novel Optimized Crow Search Algorithm (NOCSA) View Project	Mar. 2020 - Apr. 2022
Augmented reality (aligning an image in a video) View Project	Apr. 2022 - Jun. 2022

Certificates

1. Introduction to Machine learning ([Duke University](#), Apr. 2021)
2. Computer Vision Basics ([University at Buffalo](#), Apr. 2021)
3. Image and Video Processing ([Duke University](#), May 2021)

References

Dr. Mohsen Soryani (soryani@iust.ac.ir)
Associate Professor in Artificial Intelligence group

Dr. Nasser Mozayani (mozayani@iust.ac.ir)
Associate Professor in Artificial Intelligence group