



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
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. Samieyan, [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. Samieyan, [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 (remote)

Reviewer at Medical Image Analysis journal

[View Certificate](#)

May 2023 – Present | Netherlands (remote)

Reviewer at Computer Methods and Programs in Biomedicine journal

[View Certificate](#)

Mar. 2023 – Present | Ireland (remote)

Reviewer at Pattern Recognition journal

[View Certificate](#)

Nov. 2023 – Present | United Kingdom (remote)

Reviewer at Applied Soft computing journal

[View Certificate](#)

Aug. 2023 – Present | Netherlands (remote)

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

1. Pattern Recognition ([Dr. Mohammad Reza Daliri](#))
3. Artificial Neural Network ([Dr. Nasser Mozayani](#))

2. Computer Vision ([Dr. Mohsen Soryani](#))

Sep. 2022 – Jan. 2023 | Tehran, Iran

Teaching Assistant

University of Kashan

Courses

1. FPGA and ASIC ([Dr. Hossein Karimiyan](#))
3. Microprocessors ([Dr. Hosein Sabaghian](#))
5. Logic Circuits ([Dr. Salman Goli](#))

2. Artificial Intelligence ([Dr. Hossein Ebrahimpour](#))
4. Computer Architecture ([Dr. Salman Goli](#))
6. Advanced programming ([Dr. Mahsa Shamaee](#))

Feb. 2018 – Jun. 2021 | Kashan, Iran

Skills

Concept and Technology

Computer Vision
Machine Learning
Git / GitHub

Medical Image Analysis
PyTorch / Keras
Linux

Image Processing
OpenCV
Data Mining

Deep Learning
Feature Selection
FPGA

Language and Software

Python
LaTeX

C/C++
Verilog

MATLAB
QT framework

R
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)
3. Image and Video Processing ([Duke University](#), May 2021)

2. Computer Vision Basics ([University at Buffalo](#), Apr. 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