



# Poorya MohammadiNasab

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

## Contact

Research Profile	Social Media	Website	Email
Google Scholar	LinkedIn	Pooryamn.github.io	Pooryamohammadinasab@gmail.com
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## Research Interests

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

## Education

### M. Sc. in Artificial Intelligence

Sep. 2021 – Present | Tehran, Iran

Iran University of Science and Technology (IUST) <sup>[QS ranking]</sup>  
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 ultrasound (ABUS) images  
Supervisor: [Dr. Mohsen Soryani](#)

### B. Sc. in Computer engineering

Sep. 2017 – Sep. 2021 | Kashan, Iran

University of Kashan <sup>[U.S. News ranking]</sup>  
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](https://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](https://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 171<sup>th</sup>** among nearly 10,000 participants, [September 2021](#)
2. Top 10%, Achieving one of the highest GPAs among all university Computer Engineering **undergraduate** students, **Ranked 4<sup>th</sup>** among 45 undergraduate students, [February 2021](#)

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## Research Experience

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### Reviewer at Expert Systems with Applications journal

May 2022 – Present | United Kingdom (remote)

[View Certificate](#)

### Reviewer at Medical Image Analysis journal

May 2023 – Present | Netherlands (remote)

[View Certificate](#)

### Reviewer at Computer Methods and Programs in Biomedicine journal

Mar. 2023 – Present | Ireland (remote)

[View Certificate](#)

### Reviewer at Applied Soft computing journal

Aug. 2023 – Present | Netherlands (remote)

[View Certificate](#)

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## Work Experience

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### Research Assistant

Sep. 2021 – Present | Tehran, Iran

Image Processing Lab (IPL), Iran University of Science and Technology (IUST)

Supervisor: [Dr. Mohsen Soryani](#)

### Teaching Assistant

Sep. 2022 – Jan. 2023 | Tehran, Iran

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](#))

### Teaching Assistant

Feb. 2018 – Jun. 2021 | Kashan, Iran

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](#))

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## Skills

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### 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

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## Projects

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### Pneumonia Detection Using Deep Convolutional Neural Networks

Aug. 2023 – Sep. 2023

[View Project](#)

### Breast Tumor Segmentation and Shape Classification in Mammograms

Feb 2022 - Jul. 2022

[View Project](#)

### Brain Tumor Segmentation

May 2021 - Sep. 2021

[View Project](#)

### Novel Optimized Crow Search Algorithm (NOCSA)

Mar. 2020 - Apr. 2022

[View Project](#)

### Augmented reality (aligning an image in a video)

Apr. 2022 - Jun. 2022

[View Project](#)