

# Poorya MohammadiNasab

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

 [pooryamn.github.io](https://pooryamn.github.io)

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## — Research Interests —

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

## — Education —

### ● Iran University of Science and Technology (IUST)

M. Sc. in Artificial Intelligence  
Sep. 2021 – Present | Tehran, Iran

#### Selected Courses

- |  |                              |
|--|------------------------------|
| ■ Image Processing (17.9 / 20)           | ■ Computer Vision (20 / 20)  |
| ■ Artificial Neural Networks (18.5 / 20) | ■ Deep learning (18.48 / 20) |
| ■ Machine Learning (17 / 20)             |                              |

### ● University of Kashan

B. Sc. in Computer engineering  
Sep. 2017 – Sep. 2021 | Kashan, Iran  
GPA: 3.55 (GPA of the last two years: 3.87)

#### 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)       | ■ Algorithms Design (17.5 / 20)   |

## — Research Experience —

### ● Novel optimized crow search algorithm for feature selection

Expert Systems with Applications (2022)  
[doi.org/10.1016/j.eswa.2022.117486](https://doi.org/10.1016/j.eswa.2022.117486)

### ● Solving dimension reduction problems for classification using Promoted Crow Search Algorithm (PCSA)

Computing (2022)  
[doi.org/10.1007/s00607-021-01037-2](https://doi.org/10.1007/s00607-021-01037-2)

### ● Medical image analysis: An overview of techniques and improvements in brain tumor segmentation using image processing algorithms

University of Kashan (2021)  
[doi.org/10.13140/RG.2.2.16553.52324](https://doi.org/10.13140/RG.2.2.16553.52324)

## — Work Experience —

● **Reviewer at Expert Systems with Applications (ESWA) journal**

Elsevier

May 2022 – Present | United Kingdom (remote)

Impact factor: 8.66    Cite Score: 12.2    Quartile: Q1

● **Teaching Assistant**

University of Kashan

Feb. 2018 – Jun. 2021 | Kashan, Iran

Present software and concepts of the course to students

**Courses**

- |  |  |
|--|--|
| ■ FPGA (Dr. Hossein Karimiyan)           | ■ Artificial intelligence(Dr. Hossein Ebrahimpour) |
| ■ Microprocessor (Dr. Hossein Sabaghian) | ■ Computer Architecture (Dr. Salman Goli)          |
| ■ Logic Circuit (Dr. Saeed Asaeedi)      | ■ Advanced C++ programming(Dr. Mahsa Shamaei)      |

## — Skills —

● **Concepts & Technologies**

- |                    |                     |                        |
|--------------------|---------------------|------------------------|
| ■ Computer Vision  | ■ Image Processing  | ■ Deep Learning        |
| ■ Machine Learning | ■ Feature Selection | ■ OpenCV               |
| ■ PyTorch / Keras  | ■ FPGA              | ■ Git                  |
| ■ Database         | ■ Linux             | ■ AVR microcontrollers |

● **Languages & Softwares**

- |           |           |                               |
|-----------|-----------|-------------------------------|
| ■ Python  | ■ C / C++ | ■ MATLAB                      |
| ■ R       | ■ Verilog | ■ Latex                       |
| ■ Proteus | ■ Arduino | ■ QT framework (C++ / Python) |

## — Projects —

● **Brain Tumor Segmentation**

May 2021 – Sep. 2021

[github.com/Pooryamn/B.S-Thesis-Project](https://github.com/Pooryamn/B.S-Thesis-Project)

● **Smart Home (IOT project)**

May 2020 – Jul. 2020

[github.com/Pooryamn/Smart\\_Home\\_IOT](https://github.com/Pooryamn/Smart_Home_IOT)

● **Shop Management (Database Project)**

Oct. 2019 – Apr. 2020

[github.com/Pooryamn/QT\\_Shop](https://github.com/Pooryamn/QT_Shop)

● **Computer Simulation (FPGA Project)**

Feb. 2019 – Jun. 2019

[github.com/Pooryamn/Basic-Computer-design](https://github.com/Pooryamn/Basic-Computer-design)

● **Novel Optimized Crow Search Algorithm (NOCSA)**

Mar. 2020 – Apr. 2022

[github.com/Pooryamn/NOCSA](https://github.com/Pooryamn/NOCSA)

## — Links —

- |   |                                |
|---|--------------------------------|
| ■ Google Scholar: Poorya MohammadiNasab | ■ Github: Pooryamn             |
| ■ LinkedIn: Poorya-Mohammadi            | ■ Skype: live:39e3b94106ad03b7 |