# Poorya MohammadiNasab

M. Sc. student in Artificial Intelligence,

Iran University of Science and Technology

🌐 pooryamn.github.io

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## Research Interests

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

## 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) | Medical Image Analysis (18.2 / 20) |

### University of Kashan

B. Sc. in Computer engineering

Sep. 2017 – Sep. 2021 | Kashan, Iran

GPA: 3.55 (GPA of the two last 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) | Design of Algorithms (17.5 / 20) |

B. Sc. 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

# Research Experience

## Novel optimized crow search algorithm for feature selection

Expert Systems with Applications (2022)

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

# Work Experience

## Reviewer at Expert Systems with Applications (ESWA) journal

Elsevier

May 2022 – Present | United Kingdom (remote)

Certificate

## Reviewer at Medical Image Analysis (MedIA) journal

Elsevier

May 2023 – Present | Netherland (remote)

Certificate

## Reviewer at Computer Methods and Programs in Biomedicine (CMPB) journal

Elsevier

Mar. 2023 – Present | Ireland (remote)

Certificate

## Teaching Assistant

Iran University of Science and Technology

Sep. 2022 – Jan. 2023 | Tehran, Iran

Courses

Pattern Recognition (Dr. Mohammad Reza Daliri)     Computer Vision (Dr. Mohsen Soryani)

Artificial Neural Network (Dr. Nasser Mozayani)

## Teaching Assistant

University of Kashan

Feb. 2018 – Jun. 2021 | Kashan, Iran

Courses

FPGA and ASIC (Dr. Hossein Karimiyan)       Artificial Intelligence (Dr. Hossein Ebrahimpour)

Microprocessors (Dr. Hosein Sabaghian)       Computer Architecture (Dr. Salman Goli)

Logic Circuits (Dr. Salman Goli)       Advanced programming(Dr. Mahsa Shamaee)

## ———————— Skills ————————

### Concepts and Technologies

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

### Languages and Softwares

| | | | |
|---|---|---|---|
| Python | C/C++ | MATLAB | R |
| Latex | Verilog | QT framework | Arduino |

## ———————— Projects ————————

### Breast Tumor Segmentation and Shape Classification in Mammograms

Feb 2022 - Jul. 2022

github.com/Pooryamn/Breast-Tumor-Segmentation-and-Shape-Classification-in-Mammograms

### Brain Tumor Segmentation

May 2021 - Sep. 2021

github.com/Pooryamn/B.S-Thesis-Project

### Novel Optimized Crow Search Algorithm (NOCSA)

Mar. 2020 - Apr. 2022

github.com/Pooryamn/NOCSA

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

Apr. 2022 - Jun. 2022

github.com/Pooryamn/Augmented-Reality

## ———————— Links ————————

Google Scholar: Poorya MohammadiNasab       GitHub: Pooryamn

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