# 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
- 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

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

  Computing (2022)
  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

## 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

Iran University of Science and Technology (IUST)

Sep. 2022 – Present | Tehran, Iran

Present software and concepts of the course to students

**Course**

- Artificial Neural Networks Dr. Nasser Mozayani)

### 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)
- Microprocessor (Dr. Hossein Sabaghian)
- Logic Circuit (Dr. Saeed Asaeedi)
- Artificial intelligence(Dr. Hossein Ebrahimpour)
- Computer Architecture (Dr. Salman Goli)
- 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)

## Links

- Google Scholar: Poorya MohammadiNasab
- Github: Pooryamn
- LinkedIn: Poorya-Mohammadi
- Skype: live:39e3b94106ad03b7
- ResearchGate: Poorya-MohammadiNasab
- Scopus Page: Id: 57420479700
- Orcid: 0000-0002-9295-3698

## 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
- Solving Knapsack problem using Genetic Algorithm (GA)
  Oct. 2020 – Dec. 2020
  github.com/Pooryamn/Knapsack-Problem-using-genetic-algorithm
- Smart home using the Internet of Things (IoT)
  Mar. 2020 – Aug. 2020
  github.com/Pooryamn/Smart_Home_IOT
- Integrated store management desktop application with QT framework
  Feb. 2020 – Jun. 2020
  github.com/Pooryamn/Knapsack-Problem-using-genetic-algorithm