



# HANANEH RAJABIUN

## CONTACT

Mobile Phone: + (0)9388997741

Email: hananeh.rjb@gmail.com

[Linkedin](#) | [Google-Scholar](#)

## REASERCH INTEREST

- Machine Learning and Statistical Pattern Recognition
- Algorithms
- Natural language processing
- Deep Learning
- Image Processing
- Bioinformatics

## HONORS AND AWARDS

- Ranked 5st as graduated student in M.Sc. among 20 students, Yazd University, Yazd , Iran, 2021-2024.
- The superior talent and the selection of the Shahid Vozoaii project of the Elite Foundation, Yazd, Iran, 2023.
- Ranked 1st as Graduated Student in B.Sc. among 42 students, Kashmar Higher Education Institute, Kashmar, Iran, 2017-2021.

## PROFILE

I am a highly motivated individual with a strong passion for research. Aspiring to pursue a Ph.D., I thrive in intellectually stimulating environments and am committed to contributing innovative ideas to the field. My curiosity drives me to explore complex problems, and I am dedicated to making meaningful contributions through rigorous investigation and scholarly work.

## EDUCATION HISTORY

### M.Sc. degree in Computer Engineering

2021-2024

(Artificial intelligence and robotics)

Yazd University, Yazd, Iran

Thesis Title: "A natural language processing approach for predicting the lysine malonylation sites in protein"

Supervisor: Prof. Mohammad Ghasemzadeh.

(GPA 18.12 out of 20)

### B.Sc. degree in Computer Engineering (Software)

2017-2021

Kashmar Higher Education Institute, Kashmar, Iran

Thesis Title: "Recent applications of deep learning and machine intelligence in drug discovery:methods, tools and databases"

Advisor: Mr. J. Pirgazi.

(GPA 18.66 out of 20)

## SKILLS

- Programming proficiency in Python, C++
- Familiarity with machine learning frameworks like Pandas, NumPy, Matplotlib, Seaborn, Scikit-learn, SciPy, Karas, TensorFlow
- Strong understanding of algorithms and data structures
- Experience with neural networks and deep learning techniques
- Knowledge of Natural Language Processing, Computer Vision, and Data Mining
- Ability to analyze and interpret complex data sets
- Problem-solving skills and logical thinking abilities
- Excellent research and academic writing skills
- Effective communication and collaboration in team environments

# RELEVANT COURSEWORK IN M.SC

- Pattern Recognition
- Evolutionary Computing
- Digital Imaging
- Neural Networks
- Natural Language Processing
- Machine Learning
- Data Mining

# HOBBIES

- Fitness Sports
- Cooking/Baking
- Reading
- Video Games

# REFERENCES

**Prof. Mohammad Ghasemzadeh**

Full Professor of the Faculty of Computer Engineering - Artificial Intelligence Department ,Yazd University, Yazd, Iran.

Email: m.ghasemzadeh@yazd.ac.ir

# PUBLICATIONS

## Journals Papers

- **Hananeh Rajabion**, Mohammad Ghasemzadeh and Vahid Ranjbar. “MALO-PRA: Malonylation Prediction by Protein Relevance AminoFreq.” *IEEE Access*.(Under Review)
- **Hananeh Rajabiun**, Mohammad Ghasemzadeh\* and Masroor Hassan. “Efficient Prediction of Protein Malanylation Sites Using NLP and Machine Learning.” *COJ Robtic & Artificial Intelligence* 3(2) July 2023, USA. [DOI: 10.31031/COJRA.2023.03.000558](https://doi.org/10.31031/COJRA.2023.03.000558)
- **Hananeh Rajabiun**, Mahdis MohammadHoseini, Hadi Zarezadeh, and Mehdi Delkhosh. “A hybrid feature selection method for predicting lysine malonylat ion sites in proteins via machine learning.” *Chemometrics and Intelligent Laboratory Systems* 222 (2022): 104496. [DOI: 10.31031/COJRA.2023.03.000558](https://doi.org/10.31031/COJRA.2023.03.000558)

## Conference Papers

- **Hananeh Rajabion**, Mohammad Ghasemzadeh and Vahid Ranjbar, “Identification of malonylation site in proteins using feature extraction and NLP techniques.” *The 13th International Conference on Information Technology and Knowledge*, Khwarazmi University, Tehran, IRAN. December 2022 (In Persion)

# ACADEMIC EXPERIENCES

- (2023-2024) Teacher assistant (TA) in Specialized language of computer engineering, Yazd University, Yazd, Iran.
- (2021) Instructor Computer Workshop, Advanced Programming Workshop, Kashmar Higher Education Institute, Kashmar, Iran
- (2018-2020) Member of Computer Engineering Association, Kashmar Higher Education Institute, Kashmar, Iran.
- (2018) Teacher assistant (TA) in General Mathematics B.Sc., Kashmar Higher Education Institute, Kashmar, Iran.

# ACADEMIC PROJECTS

- Image Classification Project: Built a convolutional neural network (CNN) model for image classification tasks. Achieved high accuracy rates through model optimization and data augmentation techniques.
- Predictive Analytics Project: Applied machine learning algorithms to predict customer churn for a telecom company. Conducted feature engineering and model selection to improve predictive performance.