Hananeh Rajabiun

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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

Master of Science in Computer Engineering (Artificial intelligence and robotics) Sep2021 – Jan2024

Yazd University, Yazd, Iran
Thesis Title: "*A natural language processing approach for predicting the lysine malonylation sites in protein*"
Supervisor: Prof. Dr. Mohammad Ghasemzadeh.
(GPA 18.12 out of 20)

Bachelor of Science in Computer Engineering (Software) Sep2017 – Feb2021

Kashmar Higher Education Institute, Kashmar, Iran
Thesis Title: "*Recent applications of deep learning and machine intelligence in drug discovery:methods, tools and databases*"
Supervisor: Mr. Pirgazi.
(GPA 18.66 out of 20)

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

- **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

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)

REASERCH INTEREST

- Machine Learning and Statistical Pattern Recognition
- Bioinformatics
- Recommender Systems
- Large language model (LLM)
- Natural language processing
- Deep Learning

SKILLS

- **Programming Languages:** Python, C, C++
- **Python Libraries:** Pandas, NumPy, Matplotlib, Scikit-learn, SciPy, Karas, TensorFlow, OpenCV,…
- **Database**: SQL Server
- **Soft skills:** Teamwork, Leadership, Online collaboration, Team Management
- **Languages:** Persian (Farsi), English

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:

- **Description:** Built a convolutional neural network (CNN) model for image classification tasks. The model was designed to accurately classify images into predefined categories.
- **Achievements:** Achieved high accuracy rates through model optimization and data augmentation techniques, significantly improving the model's performance and robustness.

Chatbot:

- **Description:** Developed an NLP chatbot using recurrent neural networks (RNNs) and attention mechanisms. The chatbot can understand and generate contextually relevant responses based on user input.
- **Achievements:** Achieved high fluency and coherence in chatbot responses through fine-tuning and training on large conversational datasets.

E-Commerce Recommendation System:

- **Description:** Designed a recommendation system using collaborative filtering and matrix factorization techniques. The system provides personalized product recommendations to users based on their browsing history, purchase behavior, and similar users' preferences.
- **Achievements:** Improved user engagement and conversion rates by suggesting relevant products, leading to increased sales and customer satisfaction

RELEVANT COURSEWORK IN M.SC

- Natural Language Processing (20/20)
- Machine Learning(18.10/20)
- Data Mining (18/20)
- Neural Networks (17.65/20)
- Evolutionary Computin (17.70/20)
- Pattern Recognition (16.5/20)
- Digital Imaging (16.77/20)

HONORS AND AWARDS

- Ranked 4st 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

REFERENCES

Available upon request.