Aasia Rehman

Contact

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Education

- **Ph.D. in Computer Science**
  Awarded in **2024**, University of Kashmir
- **M.Tech in Computer Science and Engineering**
  CGPA: 8.63, Shri Mata Vaishno Devi University (**2015-2017**)
- **B.Tech in Computer Science and Engineering**
  Percentage: 81%, University of Kashmir (**2010-2014**)

- **GATE Qualified (2015)**
- **NET Qualified (2018-2019)**

Key Skills

- Programming Languages: C, C++, Core Java, Python
- Web Technologies: HTML Database Management
- Systems: MS SQL Server 2008
- Tools and Software: MATLAB, LaTeX, MS Visual Studio, MS Office

Professional Summary

Dedicated academic professional with expertise in Computer Science and Engineering, specializing in numerical methods, machine learning, deep learning, and medical image segmentation. Proven ability in research, teaching, and project management with a strong academic foundation and practical experience in cutting-edge technologies.

Professional experience

(March 2026 – till date)
Contractual Assistant professor, Department of Computer Sciences, University of Kashmir

(March 2025 – June 2025)
Contractual Assistant professor, Department of Computer Sciences, University of Kashmir

(March 2024 – December 2024)
Contractual Lecturer, Department of Computer Sciences, University of Kashmir

(August 2023 – December 2023)
Contractual Lecturer, Directorate of IT & SS, University of Kashmir

(July 2017 – December 2018)
Contractual Lecturer, Department of Computer Sciences, University of Kashmir

Publications

1. Rehman, A., Butt, M. A., & Zaman, M. (2023). Attention Res-UNet: Attention Residual UNet With Focal Tversky Loss for Skin Lesion Segmentation. International Journal of Decision Support System Technology (IJDSST), 15(1), 1-17. DOI: http://doi.org/10.4018/IJDSST.315756
2. A. Rehman, M. A. Butt, and M. Zaman. Liver lesion segmentation using deep learning models. Acadlore Transactions on Machine Learning, 1(1), 61-67, 2022. DOI: https://doi.org/10.56578/ataiml010108
3. A. Rehman, M. A. Butt, and M. Zaman. ChA-DenseUNet: Channel Attention DenseUNet for Polyp Segmentation. 6th International Conference on Intelligent Computing and Control Systems (ICICCS), 2022, pp. 1594-1599. DOI: https://doi.org/10.1109/ICICCS53718.2022.9788206
4. Rehman, A., et al. A Survey of Medical Image Analysis Using Deep Learning Approaches. 5th International Conference on Computing Methodologies and Communication (ICCMC), 2021, pp. 1334-1342. DOI: https://doi.org/10.1109/ICCMC51019.2021.9418385
5. Aasia Rehman, "Detection of Primary User Emulation Attack in Cognitive Radio Networks Based on TDOA using Grey Wolf Optimizer," International Journal of Computer Sciences and Engineering, Vol.7, Issue.2, pp.332-337, 2019.
6. Aasia Rehman, "Detection of Primary User Emulation Attack in Cognitive Radio Networks Based on TDOA using Grey Wolf Optimizer," International Journal of Computer Sciences and Engineering, Vol.7, Issue.2, pp.332-337, 2019.

7. Rehman, Aasia and Deo Prakash. "Detection of PUE Attack in CRN with Reduced Error in Location Estimation Using Novel Bat Algorithm." IJWNBT vol.6, no.2 2017: pp.1-25. http://doi.org/10.4018/IJWNBT.2017070101

8. Rehman, A., Bhat, S.Y. A dual encoder-decoder model with multi-attention for segmentation of variable size lesions in 2D medical images. *Multimed Tools Appl* **85**, 577 (2026). https://doi.org/10.1007/s11042-026-21738-0

Practical Training

- Organization: HP, Noida
  Duration: 45 days
  Training in Java Programming

Projects

- B.Tech Project: FileShare+ Portal (web-based application) in C# and ASPX.NET
- M.Tech Project: Detection of Primary User Emulation Attack in Cognitive Radio Networks using TDOA and Novel Bat Algorithm (MATLAB)

Key Strengths

Strong academic and research orientation
- Expertise in medical image segmentation and deep learning
- Excellent communication and teaching skills
- Hands-on experience in programming, research, and technical writing
- Proactive and detail-oriented approach in project execution