Dr. Ruhul Amin Hazarika

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Employment History

18-05-2022 – · · · · **Asst. Professor, Department of CSE, GITAM (Deemed to be University), Bengaluru**.

Education

2018 – 2023 **Ph.D., North Eastern Hill University**, Information Technology.
Thesis title: *Classification of Alzheimer's disease from brain MRI using Machine Learning techniques.*

2015 – 2017 **M.Tech. North Eastern Hill University** Information Technology.
Percentage of marks: *82%*.

2011 – 2015 **B.Tech. North Eastern Hill University** Information Technology.
Percentage of marks: *64%*.

2010 – 2011 **PGDCA. Computer Ahead** .
Percentage of marks: *60-79%*.

– 2011 **12**th. $AHSEC$.
Percentage of marks: *56%*.

– 2008 **10**th. $SEBA$.
Percentage of marks: *77%*.

Research Publications

Journal Articles

1. A novel machine learning based technique for classification of early stage-alzheimer's disease using brain images. (n.d.). **[Communicated]**.
2. An evaluation on changes in hippocampus size for cognitively normal (cn), mild cognitive impairment (mci), and alzheimer's disease (ad) patients using fuzzy membership function. (n.d.). **[Under revision]**.
3. Hazarika, R. A., Kandar, D., & Maji, A. K. (n.d.). A deep convolutional neural networks based approach for alzheimer's disease and mild cognitive impairment classification using brain images. *IEEE Access*. **[Published, SCIE, IF: 3.47]**.

4. Hazarika, R. A., Maji, A. K., Kandar, D., Jasinska, E., Krejci, P., Leonowicz, Z., & Jasinski, M. (2023). An approach for classification of alzheimer's disease using deep neural network and brain magnetic resonance imaging (mri). *Electronics*, *12*(3). **[Published, SCIE, IF: 2.69]**. Retrieved from https://www.mdpi.com/2079-9292/12/3/676

5. Hazarika, R. A., Maji, A. K., Sur, S. N., Olariu, I., & Kandar, D. (2022). A fuzzy membership based comparison of the grey matter (gm) in cognitively normal (cn), mild cognitive impairment (mci), and alzheimer's disease (ad) using brain images. *Journal of Intelligent & Fuzzy Systems*, (Preprint), 1–14. **[Published, SCIE, IF: 1.739]**.

6. Hazarika, R. A., Maji, A. K., Syiem, R., Sur, S. N., & Kandar, D. (2022). Hippocampus segmentation using u-net convolutional network from brain magnetic resonance imaging (mri). *Journal of Digital Imaging*, 1–17. **[Published, SCIE, IF: 4.05]**.

7. Hazarika, R. A., Abraham, A., Kandar, D., & Maji, A. K. (2021). An improved lenet-deep neural network model for alzheimer's disease classification using brain magnetic resonance images. *IEEE Access*, *9*, 161194–161207. **[Published SCIE, IF: 3.47]**.

8. Hazarika, R. A., Abraham, A., Sur, S. N., Maji, A. K., & Kandar, D. (2021). Different techniques for alzheimer's disease classification using brain images: A study. *International Journal of Multimedia Information Retrieval*, 1–20. **[Published, SCIE, IF: 3.205]**.

9. Hazarika, R. A., Kandar, D., & Maji, A. K. (2021b). An experimental analysis of different deep learning based models for alzheimer's disease classification using brain magnetic resonance images. *Journal of King Saud University-Computer and Information Sciences*. **[Published, SCIE, IF: 13.47(2021)]**.

10. Hazarika, R. A., Maji, A. K., Sur, S. N., Paul, B. S., & Kandar, D. (2021). A survey on classification algorithms of brain images in alzheimer's disease based on feature extraction techniques. *IEEE Access*, *9*, 58503–58536. **[Published, SCIE, IF: 3.47]**.

Conference Proceedings

1. Hazarika, R. A., Kandar, D., & Maji, A. K. (2021a). A novel deep neural network based approach for alzheimer's disease classification using brain magnetic resonance imaging (mri). In *International conference on innovations in bio-inspired computing and applications* (pp. 381–390). Springer.

2. Hazarika, R. A., Kharkongor, K., Kumar Maji, A., Kandar, D., & Sanyal, S. (2021). A hybrid approach for segmenting grey and white matter from brain magnetic resonance imaging (mri). In *Proceedings of international conference on frontiers in computing and systems* (pp. 127–138). Springer.

3. Hazarika, R. A., Kharkongor, K., Sanyal, S., & Maji, A. K. (2020). A comparative study on different skull stripping techniques from brain magnetic resonance imaging. In *International conference on innovative computing and communications* (pp. 279–288). Springer.

4. Khwairakpam, A., Hazarika, R. A., & Kandar, D. (2019). Image segmentation by fuzzy edge detection and region growing technique. In *Proceedings of the third international conference on microelectronics, computing and communication systems* (pp. 51–64). Springer.

Skills

Languages	Strong reading, writing and speaking competencies for English, Hindi, Bengali, and Assamese.
Coding	Python, Java, MATLAB, C, Latex
Databases	MySQL
Misc.	Academic research, teaching, training, consultation.

Miscellaneous Experience

Awards and Achievements

2008 **Merit Award**, Anundoram Borooah Award.

Certification

2022 **Completed a Faculty Enablement Program (FEP) on Python Programming by Infosys.**

Completed a MENTOR DEVELOPMENT PROGRAM by Talent Metrix.

Completed a Faculty Development Program (FDP) on Inculcating Universal Human Values (UHV) in technical education by AICTE.

References

Available on Request

Signature: