Dibyanarayan Hazra

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Career Objective

To leverage my academic expertise and research experience in AI in medical healthcare and agriculture coupled with a proven track record of teaching and mentoring, to contribute to the academic excellence and innovative research initiatives of Bennett University. Here I took Python Lab, Digital Design Lab, and I am also course coordinator for AI and Society course for BCA and MCA Final Year. My goal is to foster an engaging learning environment, drive impactful research, and mentor the next generation of scholars.

Education:

Sr. No	Degree	University	Year	Marks(%age)
1.	**Research Scholar / Teaching Assistant**	**Bennett University**	**Jan, 2023 - Present**	**N/A**
2.	M.ASc (Master of Engineering Studies)	The University of Auckland	2016	74.56
3.	B.Tech	Future institute of Engineering and Management (W.B.U.T)	2011	75.6

Experience summary:

Professional Experience:

Time span	Duration	Organization & Designation
September 2025- Till Date		**Assistant Professor in CSE** **IILM University**
April 2025 – September 2025	**6 month**	**Assistant Professor in AI** DTC Greater Noida
Jan 2023- Mar 2025	**2 yrs.**	**Assistant Faculty Member** CERI Education Private Limited, Rajasthan

June 2017 – Till date	**8 years 6 month**	**Developer, trainer and Project Manager** The MESD Technology, Burdwan, India
Oct 2018 – Dec 2022	**4 Years 2 month**	**University Research Assistant** Department of Computer Science, Obuda University, Hungary.

International Journal: (SCIE Indexed)

Published:

1. D.S. Fu, J. Hung, **D. Hazra**, A. K. Dwivedi, S. K. Gupta, B. D. Shivahare and D. Garg "**Enhancing sports image data classification in federated learning through genetic algorithm-based optimization of base architecture**," PLOS ONE, vol. 19, no. 7, p. e0303462, Jul. 2024, doi: 10.1371/journal.pone.0303462. [Q1, I.F – 2.9]

2. M. Agarwal, A. K. Dwivedi, **D. Hazra**, P. Sharma, S. K. Gupta, and D. Garg, "**The efficient classification of breast cancer on low-power IoT devices: A study on genetically evolved U-Net**," Computers in Biology and Medicine, vol. 183, p. 109296, Dec. 2024, doi: 10.1016/j.compbiomed.2024.109296. [Q1, I.F – 7.7]

3. M. Agarwal, A. K. Dwivedi, **D. Hazra**, S. K. Gupta, and D. Garg, "**Development of IoT Enabled Deep Learning Model for Indian Food Classification: An Approach Based on Differential Evaluation,**" Food Anal. Methods, Nov. 2024, doi: 10.1007/s12161-024-02701-x. [Q2, I.F – 2.6]

Communicated:

4. M. Alariqi, **D. Hazra,** M. Agarwal, A. K. Dwivedi, L. Sharma, B. D. Shivahare and S. K. Gupta "**GAWS-FL: Leveraging Genetic Algorithms for Weight Selection in Federated Learning for Sports Image Classification**" Applied Soft Computing, [Q1, I.F – 7.2]

Under Process:

5. **D. Hazra,** A. K. Dwivedi, R. K. Shrivastava **"Generalized compressed deep neural network for Edge Devices to classify the Brain Tumor from MRI Images".**

International Conferences: (Scopus Index)

Published:

6. **D. Hazra**, S. K. Gupta, U. Gupta, and M. Agarwal, "**Generalized framework using Federated Learning for tomato disease classification over unbalanced dataset**," in Proceedings of the 2023 9th International Conference on Computer Technology Applications, in ICCTA '23. New York, NY, USA: Association for Computing Machinery, Aug. 2023, pp. 67–71. doi: 10.1145/3605423.3605453.
7. A. Sharma, **D. Hazara**, S. K. Gupta, R. Kushwaha, and D. Kumari, "**Potato Leaf Disease Classification Using Federated Learning,**" in Recent Trends in Image Processing and Pattern

Recognition, K. Santosh, A. Makkar, M. Conway, A. K. Singh, A. Vacavant, A. Abou el Kalam, M.-R. Bouguelia, and R. Hegadi, Eds., Cham: Springer Nature Switzerland, 2024, pp. 191–201. doi: 10.1007/978-3-031-53082-1_16.

8. S. K. Gupta, **D. Hazra**, M. Agarwal, S. P. Singh, R. Dass, and D. Pantola, **"Internet of Things (IoT) Enabled Image Segmentation Model For Lung Disease Classification: An Approach Based On Particle Swarm Optimization,"** in 2023 Second International Conference On Smart Technologies For Smart Nation (SmartTechCon), Aug. 2023, pp. 116–120. doi: 10.1109/SmartTechCon57526.2023.10391723.
9. S. Gupta, D. Kumari, S. Dwarampudi, G. Reddy, and **D. Hazra**, "**Compressed Deep Learning Model for Detecting COVID-19 Disease: A Genetic Algorithm based approach**," Aug. 2023, pp. 121–125. doi: 10.1109/SmartTechCon57526.2023.10391585.

Communicated:

10. **D. Hazra**, R. K. Shrivastava, A. K. Dwivedi, S. K. Gupta, A. Maurya, A. Gupta, B. P. Singh "**A Generalized Federated Learning Approach for Robust Crop Disease Classification Across Diverse Farms**" in IEEE ANTS 2024 IIT Guwahati.
11. **D. Hazra,** A. K. Dwivedi, R. K. Shrivastava "**Lightweight and Secure: An Efficient Privacy-Preserving Brain Tumor Diagnosis with CNN**", in NGISE 2025
12. **D. Hazra**, R. K. Shrivastava, A. K. Dwivedi, J. Nischal, K. Patel, S. Rai "**Generalized framework using Federated Learning for brain tumor detection from medical images**" in CICTN 2025.

Under Process:

13. **D. Hazra**, A. K. Dwivedi, R. K. Shrivastava **"Evaluation of Weight Aggregation Techniques in Federated Learning: Insights from Brain Tumor Classification".**

Awards/ Scholarships

- Stipendium Hungharicum Scholarship 2020

Teaching Skills

- Curriculum Development
- Student Mentorship
- Excellent knowledge of subject areas and ability to teach students by using various methods
- Strong commitment in teaching for undergraduate students.
- Expertise in advising the students and problem-solving.
- Excellent teaching skills.
- Exceptionally good in the educational development of each student.

Personality Traits

- ❖ Strong interpersonal and organizational skills
- ❖ Excellent leadership and team player
- ❖ Positive attitude
- ❖ Confident and Energetic with the ability to learn
- ❖ Optimistic & Proactive Attitude

Technical and Research Skill

- ❖ Python
- ❖ Deep Learning
- ❖ Latex
- ❖ Machine Learning
- ❖ Deep Learning
- ❖ Open CV
- ❖ ROS
- ❖ MATLAB & Simulink
- ❖ GIT
- ❖ Data analysis
- ❖ Optimistic & Proactive Attitude

Certification:

1. Certificate issued on "Machine Learning" by Coursera on 8 September 2020. (https://coursera.org/share/5cada56129c7ac4594bbad50f800803d)
2. Certificate issued on "Version Control with Git" by Coursera on 7 January 2024. (https://coursera.org/share/e6d777e419d925e5bcec84c7dc8bfd7e)

Reviewer:

- ❖ journal, PLOS ONE (https://portal.issn.org/resource/ISSN/1932-6203)
- ❖ World Journal of Surgical Oncology (https://wjso.biomedcentral.com/)
- ❖ International Advanced Computing Conference (IACC-2024) (https://computingconf.com/)

Membership:

- ❖ Member of IEEE with membership id 94542458.

Personal details:

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Date:

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