Manash P. Bhuyan, Ph.D.

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Employment History

Sept'2022 – Present	🔖 **Assistant Professor & HoD,** Dept. of Computer Science, Dibru College, Dibrugarh
March'2021 – Sept'2022	🔖 **Assistant Professor(contractual)** Dept. of Computer Science & Engineering, Golaghat Engineering College, Golaghat.
July'2010 – March'2021	🔖 **Assistant Professor(contractual)** Dept. of Computer Science & Engineering, Assam Engineering College, Guwahati.

Education

2016 – 2021	🔖 **Ph.D., Natural Language Processing,** Dept. of Information Technology, Gauhati University.
2011 – 2013	🔖 **M.Tech., Information Technology,** Dept. of Information Technology, Gauhati University.
2006 – 2010	🔖 **B.E., Computer Science & Engineering,** Assam Engineering College, Jalukbari, Guwahati.

Research Publications

Journal Articles

1. Ahmed, M. A., Choudhury, R. D., Sarma, S. K., Borbora, K. A., **Bhuyan, Manash P.**, & Barman, U. (2024). Hybrid deep ensemble for fine-grained race estimation. *Multimedia Tools and Applications*, 1–24. 🔗 doi:10.1007/s11042-024-19950-x

2. Sarma, P., **Bhuyan, Manash Pratim**, Kalita, C., & Upadhyaya, V. (2023). A model to validate different inflections of assamese verbs. *Recent Patents on Engineering*, *19(2)*, 13–25. 🔗 doi:10.2174/1872212118666230912154736

3. **Bhuyan, M. P.**, & Sarma, S. K. (2020). Generation of missing words in assamese text using n-gram based model. *J. of Phy.: Conf. Ser., IOP Science*, *1706*, 1–9. 🔗 doi:10.1088/1742-6596/1706/1/012166

4. Kalita, S., Sarma, S. K., **Bhuyan, Manash P.**, & Deka, V. (2020). Event detection in assamese text using conditional random field. *Journal of Advanced Research in Dynamical and Control Systems presents peer-reviewed survey and original research articles.*, *12*, 1943–023X. Retrieved from 🔗 https://www.jardcs.org/abstract.php?id=3705

5. **Bhuyan, M. P.**, & Sarma, S. K. (2019a). A higher-order n-gram model to enhance automatic word prediction for assamese sentences containing ambiguous words. *Int. J. of Eng. and Adv. Tech.*, *8*, 2278–3075. Retrieved from 🔗 https://www.ijeat.org/portfolio-item/f8706088619/

6. **Bhuyan, M. P.**, & Sarma, S. K. (2019b). A statistical model for automatic error detection and correction of assamese words. *Int. J. of Rec. Tech. and Eng.*, *8*, 2277–3878. Retrieved from 🔗 https://www.ijrte.org/wp-content/uploads/papers/v8i2/B3859078219.pdf

7   **Bhuyan, M. P.**, & Sarma, S. K. (2019c). An n-gram based model for predicting of word-formation in assamese language. *J. of Inf. and Opt. Sci., Taylor Francis, 40*, 2169–0103. Retrieved from
🔗 https://doi.org/10.1080/02522667.2019.1580883

8   Rahman, M., Sarma, P., **Bhuyan, M. P.**, Das, A., & Dutta, D. (2019). Image to speech synthesizer with reference to assamese numerals. *Int. J. of Inn. Tech. and Expl. Eng., 9*, 2278–3075. Retrieved from
🔗 https://www.ijitee.org/wp-content/uploads/papers/v9i1/A4435119119.pdf

9   Sarma, P., Mitra, M., **Bhuyan, M. P.**, Deka, V., Sarmah, S., & Sarma, S. K. (2019). Automatic vowel recognition from assamese spoken words. *Int. J. of Inn. Tech. and Expl. Eng., 8*, 2278–3075. Retrieved from 🔗 https://www.ijitee.org/wp-content/uploads/papers/v8i10/J13010881019.pdf

10   Sarmah, S., **Bhuyan, M. P.**, Deka, V., Rahman, M., Sarma, P., & Sarma, S. K. (2019). Measuring the performance of multi-core architecture using openmp. *Int. J. of Sci. Tech. Res., 8*, 2277–8616. Retrieved from 🔗 http://www.ijstr.org/final-print/oct2019/Measuring-The-Performance-Of-Multi-core-Architecture-Using-Openmp.pdf

Conference Proceedings

1   Talukdar, B. K., Chandra Deka, B., & **Bhuyan, Manash Pratim**. (2021). Reliability analysis of electric vehicle integrated distribution network. In *2021 international conference on computational performance evaluation (compe)* (pp. 858–862). 🔗 doi:10.1109/ComPE53109.2021.9751918

2   **Bhuyan, M. P.**, Sarma, S. K., & Rahman, M. (2020). Natural language processing based stochastic model for the correctness of assamese sentences. In *2020 5th international conference on communication and electronics systems (icces)* (pp. 1179–1182). 🔗 doi:10.1109/ICCES48766.2020.9138067

3   Deka, R. R., Kalita, S., **Bhuyan, M. P.**, & Sarma, S. K. (2020). A study of various natural language processing works for assamese language. In S. Dawn, V. E. Balas, A. Esposito, & S. Gope (Eds.), *Intelligent techniques and applications in science and technology* (pp. 128–136). Cham: Springer International Publishing.

4   **Bhuyan, M. P.**, & Sarma, S. K. (2019d). Effects of prediction-length on accuracy in automatic assamese word prediction. In *2019 ieee international conference on electrical, computer and communication technologies (icecct)* (pp. 1–4). 🔗 doi:10.1109/ICECCT.2019.8869431

Books and Chapters

1   Ahmed, M. A., Choudhury, R. D., Deka, V., **Bhuyan, Manash P.**, & Boruah, P. A. (2022). *Deriving soft biometric feature from facial images* (V. Skala, T. P. Singh, T. Choudhury, R. Tomar, & M. Abul Bashar, Eds.). Singapore: Springer Nature Singapore.

2   **Bhuyan, M. P.**, Sarma, S. K., & Sarma, P. (2021). *Context-based clustering of assamese words using n-gram model* (T. Sengodan, M. Murugappan, & S. Misra, Eds.). Singapore: Springer Nature Singapore.

3   Khanikar, P., **Bhuyan, M. P.**, Baruah, R. R., & Sarma, H. (2015). *Experimental analysis on the performance of a new preprocessing method used in data compression* (P. K. Bora, S. R. M. Prasanna, K. K. Sarma, & N. Saikia, Eds.). New Delhi: Springer India.

Skills

Languages	■	Strong reading, writing and speaking competencies for English, Assamese, Hindi.
Coding	■	C, C++, Java, Parallel C, PHP, Python, R, SQL, XML/XSL, LaTeX, MATLAB.
Databases	■	MySQL, MS Acess, MogoDb, SQLite.
Web Dev	■	HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server.
Misc.	■	Academic research, teaching, training, LaTeX typesetting and publishing.

Miscellaneous Experience

Invited Talk/Resource Person

- Resource person in one week short term course on "Study of Digital Humanities in Assamese & Bengali Language and Literature" organized by UGC-HRDC, Gauhati University sponsored by RUSA 2.0 Govt. of Assam held from 21 March-27 March 2022 at Gauhati Univesity, Guwahati-14.

- Resource person in one week faculty development programme on "Using ICT Tools for Teaching in Blended Learning Process" organized by E&ICT Academy IIT Guwahati held from 28 February-05 March 2022 in association with IQAC Cell, Khowang College, Dibrugarh, Assam and support from Mantra Associates.

- Resource person in one week faculty development programme on "Introduction to Python Programming & its Application" organized by E&ICT Academy IIT Guwahati held from 21 February-26 February, 2022 in association with North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh and support from Mantra Associates.

- Resource person in one week faculty development programme on "Research Methodology and Online Teaching" organized by E&ICT Academy IIT Guwahati held from 17 January-22 January, 2022 in association with North Eastern Regional Institute of Science and Technology (NERIST), Arunachal Pradesh and support from Mantra Associates.

- Resource person in one week faculty development programme on "E-Learning Platform" organized by E&ICT Academy IIT Guwahati held from 31 May – 05 June, 2021 in association with Women Cell and IQAC Borholla College, Jorhat, Assam and support from Mantra Associates.

- Resource person in one week faculty development programme on "E-Learning Platform" organized by E&ICT Academy IIT Guwahati held from 24 May – 29 May, 2021 in association with IQAC and IT Cell Kamarbandha College, Golaghat, Assam and support from Mantra Associates.

- Resource person in one week faculty development programme on "Mentoring Pedagogy and Research Methodology for Teaching" organized by E&ICT Academy IIT Guwahati held from 08 March – 13 March, 2021 in association with Furkating College, Assam and support from Mantra Associates.

- Resource person in Two weeks faculty development programme on Machine Learning & Python Programming organized by the Department of Computer Science & Engineering, Assam Engineering College, Guwahati in association with PSG college of Technology, Coimbatore 22nd July to 1st August 2019.

- Resource person in the NE certification course on Big Data, IoT organized by CDAC-AEC PARAM Supercomputing Center and CDAC Pune, December 2018 to March 2019.

Academic/Administrative Responsibilities

- Convener, IT Committee, Dibru College, Dibrugarh.
- Joint Convener, Prospectus Committee 2024-2025, Dibru College, Dibrugarh.
- Assistant Zonal Officer of 6th Semester (CBCS) Examination Zone, Dibru College, Dibrugarh University, 2023.
- Worked as Assistant Examination In-charge at Golaghat Engineering College.

References

Available on Request