

LOITONGBAM SANAYAI MEETEI, PhD

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LANGUAGES: English, Manipuri, Hindi

Area of Interest: Natural Language Processing (NLP), Artificial Intelligence (AI)

WORK EXPERIENCES


Siksha 'O' Anusandhan Deemed to be University (Assistant Professor)

Bhubaneswar, INDIA

 DECEMBER 2023 - **Present**


Xerox Business Services India Pvt. Ltd. (Software Engineer)

Bengaluru, INDIA

 JANUARY 2015 - JUNE 2016

Pratian Technologies (India) Pvt. Ltd. (Software Engineer)

Bengaluru, INDIA

 MARCH 2014 - DECEMBER 2014


EDUCATION

PhD - Department of Computer Science & Engineering (CSE), NIT Silchar, Assam, INDIA

 2018- 2024 (Awarded on: **15th Nov 2024**)


- Visiting scholar at **Universität des Saarlandes, Germany (Sept-Nov 2019)**

M.Tech - Department of Computer Science & Engineering (CSE), NIT Silchar, Assam, INDIA

 2016-2018

- Research Internship at **IIT Guwahati, India (May-July 2017)**

B.Tech - Information Technology (IT), NEHU, Meghalaya, INDIA

 2008-2012

RESEARCH PUBLICATIONS

Journal Papers

1. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "An empirical study of a novel multimodal dataset for low resource machine translation" Knowledge and Information Systems (2024) [SCIE]
2. Meetei, Loitongbam Sanayai, Alok Singh, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Do cues in a video help in handling rare words in a machine translation system under a low-resource setting?." Natural Language Processing Journal (2023) -Elsevier: 100016.
3. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Exploiting Multiple Correlated Modalities can Enhance Low-Resource Machine Translation Quality" Multimedia Tools and Applications (2023): 1-21. [Scopus]
4. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, Samir Kumar Borgohain, and Sivaji Bandyopadhyay. "Low resource language specific pre-processing and features for sentiment analysis task." Language Resources and Evaluation 55, no. 4 (2021): 947-969. [SCIE]
5. Devi, Chanambam Sveta, Bipul Syam Purkayastha, and Loitongbam Sanayai Meetei. "An empirical study on English-Mizo Statistical Machine Translation with Bible Corpus." International journal of electrical and computer engineering systems 13, no. 9 (2022): 759-765. [Scopus]

Conference / Workshop Papers

1. Boynao, Singh Kshetrimayum, Singh Ningthoujam Avichandra, Meetei Loitongbam Sanayai, Singh Ningthoujam Justwant, Singh Thoudam Doren, and Bandyopadhyay Sivaji. "A comparative study of transformer and transfer learning MT models for English-Manipuri." In Proceedings of the 20th International Conference on Natural Language Processing (ICON), pp. 791-796. 2023.
2. Singh, Kshetrimayum Boynao, Avichandra Singh Ningthoujam, Loitongbam Sanayai Meetei, Sivaji Bandyopadhyay, and Thoudam Doren Singh. "NITS-CNLP Low-Resource Neural Machine Translation Systems of English-Manipuri Language Pair." In Proceedings of the Eighth Conference on Machine Translation, pp. 967-971. 2023.
3. Meetei, Loitongbam Sanayai, Salam Michael Singh, Alok Singh, Ringki Das, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Hindi to English Multimodal Machine Translation on News Dataset in Low Resource Setting." *Procedia Computer Science* 218 (2023): 2102-2109. [Scopus]
4. Meetei, Loitongbam Sanayai, Laishram Rahul, Alok Singh, Salam Michael Singh, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "An Experiment on Speech-to-Text Translation Systems for Manipuri to English on Low Resource Setting." In Proceedings of the 18th International Conference on Natural Language Processing (ICON), pp. 54-63. 2021.
5. Singh, Salam Michael, Loitongbam Sanayai Meetei, Alok Singh, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "On the transferability of massively multilingual pretrained models in the pretext of the Indo-Aryan and tibeto-burman languages." In Proceedings of the 18th International Conference on Natural Language Processing (ICON), pp. 64-74. 2021.
6. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Low Resource Multimodal Neural Machine Translation of English-Hindi in News Domain." In Proceedings of the First Workshop on Multimodal Machine Translation for Low Resource Languages (MMTLRL 2021), pp. 20-29. 2021.
7. Rahul, Laishram, Loitongbam Sanayai Meetei, and H. S. Jayanna. "Statistical and neural machine translation for Manipuri-English on intelligence domain." In *Advances in Computing and Network Communications: Proceedings of CoCoNet 2020*, Volume 2, pp. 249-257. Springer Singapore, 2021. [Scopus]
8. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, Sivaji Bandyopadhyay, Mihaela Vela, and Josef van Genabith. "English to Manipuri and Mizo Post-Editing Effort and its Impact on Low Resource Machine Translation." In Proceedings of the 17th International Conference on Natural Language Processing (ICON), pp. 50-59. 2020.
9. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Extraction and Identification of Manipuri and Mizo Texts from Scene and Document Images." In *International Conference on Pattern Recognition and Machine Intelligence*, pp. 405-414. Springer, Cham, 2019. [Scopus]
10. Meetei, Loitongbam Sanayai, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "WAT2019: English-Hindi translation on Hindi visual genome dataset." In Proceedings of the 6th Workshop on Asian Translation, pp. 181-188. 2019.
11. Meetei, Loitongbam Sanayai, Ringki Das, Thoudam Doren Singh, and Sivaji Bandyopadhyay. "Automatic Extraction of Locations from News Articles Using Domain Knowledge." In *International Conference on Big Data, Machine Learning, and Applications*, pp. 36-47. Springer, Cham, 2019. [Scopus]

PRESENTATIONS

SPARC sponsored Symposium cum Workshop on **Recent Advances in Machine Translation (RAMT-2021)**

- Presented a tutorial on “Multimodal Machine Translation” at **RAMT-2021**
- Presented a practical session on “Machine Translation” at **RAMT-2021**

ACADEMIC ACTIVITIES

Teaching Assistant:

- **Theory Class: Introduction to C, Natural Language Processing**
- **Laboratory Class: C, C++**

Lecturer:

- **Introduction to Databases (ID)**
- **Computer Networks (CN)**

REVIEWER / SERVED as TPC

- [Applied Artificial Intelligence](#) (SCIE)
- [International Journal of Machine Learning and Cybernetics](#) (SCIE)
- [IEEE Transactions on Multimedia](#) (SCI)
- [Language Resources and Evaluation](#) (SCIE)
- [Neural Processing Letters](#) (SCIE)
- [Scientific Reports](#) (SCIE)
- [Transactions on Asian and Low-Resource Language Information Processing](#) (SCIE)
- [Discover Applied Sciences](#) (ESCI, Scopus)
- [International Journal of Data Science and Analytics](#) (ESCI, Scopus)
- [Journal of Big Data](#) (ESCI, Scopus)
- [Social Network Analysis and Mining](#) (Scopus)
- [Multimedia Tools and Application, Springer](#) (Scopus)

EXTRACURRICULAR ACTIVITIES

- Webmaster and Volunteer at the International Conference on Natural Language Processing [ICON-2021](#).
- Volunteer at the International Conference On Big Data, Machine Learning and Applications [BIGDML 2019](#).
- Winner in Table Tennis in the NEHU games 2011-2012.
- Volunteer in the Worldwide Save Loktak Lake Campaign organized by North East Center for Environmental Education and Research Imphal (2010).
- First position in the State Level Technical Essay Writing Competition (2005).