

Salam Michael Singh

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NIT Silchar, Cachar 788010, Assam, India

Education

National Institute of Technology Silchar Ph.D, Department of CSE (Ongoing)	Silchar, Assam 2019 - current
National Institute of Technology Silchar M.Tech, Department of CSE (8.06/10 CPI)	Silchar, Assam 2017 - 2019
National Institute of Technology Arunachal Pradesh B.Tech, Department of CSE (7.39/10 CPI)	Yupia, Arunachal Pradesh 2017 - 2019

Research activities

Center for Natural Language Processing, NIT Silchar <i>Advisor: Dr Thoudam Doren Singh</i> Key highlights: Low resource machine translation focusing on Manipuri Language. The objective of this research is to address the low resource machine translation via exploiting the monolingual and multilingual cues.	Silchar, Assam July, 2019 - current
Department of Computer Science and Engineering, Silchar <i>Advisor: Dr Samir Kumar Borgohain</i> Key highlights: Multi-modal word sense disambiguation.	Silchar, Assam 2017 - 2019

Technical skills

- **Programming languages:** Python, C, Java, Go
- **Framework and tools:** Pytorch, Keras, Trax, Numpy
- **Others:** LaTeX, Bash, UNIX, MySQL, PHP, Javascript, Flask, Streamlit

Publications

Journals:

1. **Salam Michael Singh**, & Thoudam Doren Singh. 2022. An empirical study of low-resource neural machine translation of manipuri in multilingual settings. **Neural Comput & Applic. (SCIE, IF 5.606)**
2. Arpita Dutta, **Salam Michael Singh**, & Samir Kumar Borgohain. 2021. Removal of Ambiguity of Noun Using Multimodal Approach. Indian Journal of Computer Science and Engineering (IJCSE). (**SCOPUS**)

Conferences/workshops:

1. **Salam Michael Singh**, Loitongbam Sanayai Meetei, Alok Singh, Thoudam Doren Singh and Sivaji Bandyopadhyay. 2021. On the Transferability of Massively Multilingual Pretrained Models in the Pretext of

the Indo-Aryan and Tibeto-Burman Languages. In Proceedings of the International Conference on Natural Language Processing ICON-2021.

2. Loitongbam Sanayai Meetei, **Salam Michael Singh**, Alok Singh, Thoudam Doren Singh and Sivaji Bandyopadhyay. 2021. An Experiment on Speech-to-Text Translation Systems for Manipuri to English on Low Resource Setting. In Proceedings of the International Conference on Natural Language Processing ICON-2021
3. Alok Singh, Loitongbam Sanayai Meetei, **Salam Michael Singh**, Thoudam Doren Singh and Sivaji Bandyopadhyay. 2021. An efficient keyframes selection based framework for video captioning. In Proceedings of the International Conference on Natural Language Processing ICON-2021
4. **Salam Michael Singh**, Loitongbam Sanayai Meetei and Thoudam Doren Singh. 2021. Multiple Captions Embellished Multilingual Multi-Modal Neural Machine Translation. Proceedings of the First Workshop on Multimodal Machine Translation for Low Resource Languages (MMTLRL 2021), in Conjunction with RANLP 2021
5. **Salam Michael Singh** and Thoudam Doren Singh. 2020. Unsupervised Neural Machine Translation for English and Manipuri. In the third Workshop on Technologies for MT of Low Resource Languages (LoResMT 2020), in Conjunction with ACL-IJCNLP-2020

Shared tasks:

1. **Shared Task: Salam Michael Singh**, Thoudam Doren Singh, and Sivaji Bandyopadhyay. 2020. The NITS-CNLP system for the unsupervised machine translation task at WMT 2020. In the Fifth Conference on Machine Translation, in Conjunction with EMNLP 2020

Book chapters:

1. **Salam Michael Singh** and Thoudam Doren Singh. 2021. Statistical and Neural Machine Translation Systems of English to Manipuri: A Preliminary Study. In the third International Conference Soft Computing and Signal Processing

Service and professional activities

Reviewing:

- **Journals:** Multimedia Tools and Applications
- **Conferences:** ICON 2021
- **Workshops:** MMTLRL 2021 @ RANLP 2021

Volunteering:

- **Conferences:** ICON 2021, BigDML 2019
- **Workshops:** MMTLRL 2021

Teaching/Lab assistance:

- Networking Lab
- Introduction to programming
- Object oriented programming
- Computer graphics
- Natural language processing [notebook!]

Position of responsibility

Core member of Addovedi 14 web and creative designing team (September, 2014):

- Designed and deployed the website of the annual technical festival of NIT Arunachal Pradesh.
- Contributed in designing the posters, logos and banners for the same event.

Workshop coordinator (web designing) (September, 2014):

- Conducted workshop on web designing
- The workshop covered the basic front end using html, css and javascript and the backend using PHP and MySQL

Extracurricular activities

- Won the university football tournament in 2016
- Organized various multiplayer gaming events during the college fest (2014-2015).