

# NIKHIL SAINI

Email: niksarrow196@gmail.com

Website: niksarrow.netlify.app

Field of Study: Computer Science & Engineering

Degree	Course	University	Year	CPI / %
M.Tech (RA)	CSE	IIT Bombay	2021	9.43
B.E.	CSE	FTE, MSU, Baroda	2018	72.80

## FIELDS OF INTEREST

- Machine Learning
- Natural Language Processing
- Speech
- Algorithms

## PUBLICATIONS

- **Language Relatedness and Lexical Closeness can help Improve Multilingual NMT: IITBombayMultiIndic-NMT WAT2021**  
*Jyotsana Khatri, Nikhil Saini, Pushpak Bhattacharyya*  
To appear in Proceedings of the 8th Workshop on Asian Translation, 2021.
- **EACL 2021: Disfluency Correction using Unsupervised and Semi-supervised Learning**  
*Nikhil Saini, Drumil Trivedi, Shreya Khare, Tejas Dhamecha, Preethi Jyothi, Samarth Bharadwaj, Pushpak Bhattacharyya*  
Proceedings of EACL (16th Conference of the European Chapter of the Association for Computational Linguistics), 2021.
- **ACL 2020: Generating Fluent Translations from Disfluent Text Without Access to Fluent References: IIT Bombay@IWSLT2020**  
*Nikhil Saini, Jyotsana Khatri, Preethi Jyothi, Pushpak Bhattacharyya*  
Proceedings of the 58<sup>th</sup> Annual Meeting of the Association for Computational Linguistics: System Demonstrations
- **PDGC 2020: Load Balancing in Heterogeneous Distributed Systems Using Singleton Model**  
*Nikhil Saini, Jeet Rabari, Mamta C. Padole, Vaibhav Solanki*  
In 2020 Sixth International Conference on Parallel, Distributed and Grid Computing

## MASTER'S THESIS & RESEARCH PROJECTS

- **Exploring Disfluencies for Speech to Text Machine Translation**  
*Master's Thesis | Guide: Prof. Preethi Jyothi & Prof. Pushpak Bhattacharyya* (Jun'20 - Jul'21)
- **Unsupervised Neural Machine Translation**  
*R&D Project | Guide: Prof. Pushpak Bhattacharyya* (Jan'20 - May 2020)
- **Preordering in Neural Machine Translation: Helpful or Not?**  
*R&D Project | Guide: Prof. Pushpak Bhattacharyya* (Jul'19 - Nov'19)

## Talks

- **Disfluency Correction in the Context of Speech To Speech Machine Translation**  
*ACM Winter School on Natural Language Processing (IRNLP, DAIICT)* (Jan'21)
- **Developing High Quality Speech To Speech Machine Translation (SSMT)**  
*NASSCOM - The NLP Week* (Apr'21)
- **Machine Translation**  
*ACM Winter School on Natural Language Processing (IRNLP, DAIICT)* (Jan'21)

## WORK EXPERIENCE

- **Computer Center, IIT Bombay Research Assistantship (System Administrator)** (Jul'18 - Jun'21)
  - Monitoring & maintaining over **750** Cisco & Extreme switches & **150 VMs** using Zabbix.
  - Implementation of **ELK Stack** to search, analyze, and visualize logs from multiple live internal services.

## TECHNICAL SKILLS

- **Programming Languages:** C, C++, Python, Bash
- **Libraries:** OpenNMT-py, Fairseq, Moses, pandas, NumPy
- **Tools:** Pytorch, TensorFlow, Vim, Git,  $\text{\LaTeX}$
- **Frameworks:** Django, Bootstrap