# Nikhil Saini

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**Field of Study:** Computer Science & Engineering

| Degree | Course | University | Year | CPI / % |
|---|---|---|---|---|
| M.Tech (RA) | CSE | IIT Bombay | 2021 | 9.20 |
| 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 $58^{th}$ 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

- **Spoken Language Translation & Disfluency Correction**
  *Master's Thesis | Guide: **Prof. Preethi Jyothi & Prof. Pushpak Bhattacharyya***  *(Jun'20 - Ongoing)*

- **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 - Ongoing)*
  - 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
- **Tools:** Pytorch, TensorFlow, Vim, Git, LaTeX
- **Libraries:** OpenNMT-py, Fairseq, Moses, pandas, NumPy
- **Frameworks:** Django, Bootstrap