NIKHIL SAINI

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

INTERESTS

- 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 58th 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
- **Tools:** Pytorch, TensorFlow, Vim, ⍟, LaTeX
- **Libraries:** OpenNMT-py, Fairseq, Moses, pandas, NumPy
- **Frameworks:** Django, Bootstrap