

Research Interests	Machine Learning, Natural Language Processing (NLP), Cross-lingual Word Embeddings, Machine Translation <i>Research Focus:</i> Deep learning techniques to solve various NLP tasks for low resource scenarios	
Education	Indian Institute of Technology Bombay, India Ph.D. , Computer Science and Engineering Advisor: Prof. Pushpak Bhattacharyya Research focus is on improving machine translation for low resource scenarios.	July 2017 - Present
	Dhirubhai Ambani Institute of Information and Communication Technology M.Tech. , Information and Communication Technology <i>Thesis Title:</i> Verbose Query Processing in Biomedical Information Retrieval <i>Advisor:</i> Prof. Prasenjit Majumder CPI: 8.69 (10)	July 2014 - June 2016
	Banasthali University B.Tech. , Information Technology Percentage: 79.33%	July 2009 - June 2013
Experience	Indian Institute of Technology Bombay Teaching Assistant (With Ph.D.) Worked as TA for courses Software Lab, Web Mining. Natural Language Processing and Data Structure	July 2018 - Present
	Dhirubhai Ambani Institute of Information and Communication Technology, Gandhinagar Teaching Assistant (With M.Tech.) Worked as TA for courses Database Management System, and Operating System	July 2014 - June 2016
	MAQ Software, Mumbai Software Engineer Worked on PowerBI Custom Visuals, Azure Data Factory, SQL Server Analysis Services	July 2016 - June 2017
	Indian Agricultural Statistics and Research Institute, Delhi Intern, Web Development	July 2012 - Dec 2012

Worked on creating a website using ASP.NET and SQL Server

Publications	<ul style="list-style-type: none">• Jyotsana Khatri, Pushpak Bhattacharyya “Filtering Back-Translated Data in Unsupervised Neural Machine Translation.” In Proceedings of the 28th International Conference on Computational Linguistics, pp. 4334-4339. 2020.• Jyotsana Khatri, Rudra Murthi, Pushpak Bhattahcaryya, “A Study of Efficacy of Cross-lingual Word Embeddings for Indian Languages”, Proceedings of the ACM India Joint International Conference on Data Science and Management of Data (Young Researchers’ Symposium) (CODS-COMAD), 2020.• Jyotsana Khatri, Pushpak Bhattacharyya, “Utilizing Monolingual Data in NMT for Similar Languages: Submission to Similar Language Translation Task”, Proceedings of the Fourth Conference on Machine Translation (Shared Task Papers) (WMT), 2019.• Nikhil Saini, Jyotsana Khatri, Preethi Jyothi, Pushpak Bhattacharyya. “Generating Fluent Translations from Disfluent Text Without Access to Fluent References: IIT Bombay@ IWSLT2020.” In Proceedings of the 17th International Conference on Spoken Language Translation, pp. 178-186. 2020.	
Tutorials	<ul style="list-style-type: none">• “Unsupervised Neural Machine Translation” Rudra Murthy, Tamali Banarjee, Jyotsana Khatri, sDiptesh Kanojia, and Pushpak Bhattacharyya, 17th International Conference on Natural Language Processing (ICON), December, 2020.	
Projects	Verbose Query Processing in Biomedical Information Retrieval	July 2015 - June 2016
	Explored performance of existing retrieval models in case of biomedical data. We showed that selective query expansion based on pre-retrieval predictors help in retrieval.	
	Integration of Web Based Systems	July 2012 - Dec 2012
	Designed a website for management of projects under IASRI	
	Online Quiz Application	April 2012 - July 2012
	Designed a website for quiz application using ASP.NET (C#) and SQL Server	
Academic Activities	<ul style="list-style-type: none">• Organizing Committee Member for 7th meeting of Forum for Information Retrieval 2015 (FIRE – 2015) at DAIICT, Gandhinagar• Certificate in French (Basic Knowledge)• Relevant course work: Machine Learning, Digital Image Processing, Web Mining, Pattern Recognition, Information Retrieval	

Technical Skills

- HTML5, CSS3, JavaScript
- Python, Java, C, C++
- Pytorch
- L^AT_EX