## Abhijeet Awasthi

Post-doctoral Researcher, Microsoft Research

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Research Interests	Data-Efficient Training and Adaptation of Large Sequence Models for Text, Speech, and Code Areas: Weak Supervision, Data-Generation, Multilingual NLU, Text-Editing, Speech-to-Text		
Education	Indian Institute of Technology Bombay, India Degree: Ph.D. in Computer Science and Engineering Advisor: Prof. Sunita Sarawagi	July 2017 - June 2023	
	Indian Institute of Technology Kharagpur, India Degree: B.Tech. in Electronics and Electrical Communication Advisor: Prof. Goutam Saha	July 2012 - May 2016	
Experience	Microsoft Research, Bangalore Post-doctoral Researcher in AI4Code Team Project: Evaluating and Improving Code-LLMs beyond Function	June 2023 - Present	
	Google Research, Bangalore Research Intern in Natural Language Understanding Team Project: Using LLMs to bootstrap semantic parsers across 50 lar	April 2022 - November 2022	
	Google Research, Zürich Research Intern in Sense Audio Team (Cerebra) Project: Few-shot recognition of multilingual hotwords	October 2020 - January 2021	
	Samsung Research Institute, Noida Software Engineer in GPS and Sensors Team	July 2016 - July 2017	
Publications	• NoFunEval: Funny How Code LMs Falter on Requirements Beyond Functional Correctness Manav Singhal, Tushar Aggarwal, Abhijeet Awasthi, Nagarajan Natarajan, Aditya Kanade Under Review		
	• Conditional Tree Matching for Inference-Time Adaptation of Tree Prediction Models Harshit Varma, Abhijeet Awasthi, Sunita Sarawagi International Conference on Machine Learning, <b>ICML 2023</b>		
	• Bootstrapping Multilingual Semantic Parsers using Large Language Models Abhijeet Awasthi, N. Gupta, B. Samanta, S. Dave, S. Sarawagi, P. Talukdar European Chapter of the Association for Computational Linguistics, <b>EACL 2023</b>		
		i, P. Talukdar	
		i, P. Talukdar listics, <b>EACL 2023</b>	
	<ul> <li>European Chapter of the Association for Computational Lingu</li> <li>Structured Case-Based Reasoning for Inference-time Adaptatic Abhijeet Awasthi, Soumen Chakrabarti, Sunita Sarawagi</li> </ul>	i, P. Talukdar uistics, <b>EACL 2023</b> on of Text-to-SQL parsers n of Text-to-SQL parsers	
	<ul> <li>European Chapter of the Association for Computational Lingu</li> <li>Structured Case-Based Reasoning for Inference-time Adaptation Abhijeet Awasthi, Soumen Chakrabarti, Sunita Sarawagi AAAI Conference on Artificial Intelligence, AAAI 2023</li> <li>Diverse Parallel Data Synthesis for Cross-Database Adaptation Abhijeet Awasthi, Ashutosh Sathe, Sunita Sarawagi</li> </ul>	i, P. Talukdar uistics, <b>EACL 2023</b> on of Text-to-SQL parsers n of Text-to-SQL parsers <b>2022</b> ght) rawagi	

	• Teaching keyword spotters to spot new keywords with limited examples Abhijeet Awasthi, Kevin Kilgour, Hassan Rom Annual Conference of ISCA, a.k.a. <b>INTERSPEECH 2021</b>	
	• Error-driven Fixed-Budget ASR Personalization for Accented Speakers Abhijeet Awasthi, Aman Kansal, Sunita Sarawagi, Preethi Jyothi International Conference on Acoustics, Speech, and Signal Processing, <b>ICASSP 2021</b>	
	• Exploiting Language Relatedness for Low Web-Resource Language Model Adaptation Y. Khemchandani, S. Mehtani, V. Patil, Abhijeet Awasthi, P. Talukdar, S. Sarawagi Annual Meeting of the Association for Computational Linguistics, <b>ACL 2021</b>	
	• Black-box Adaptation of ASR for Accented Speech Kartik Khandelwal, Preethi Jyothi, Abhijeet Awasthi, and Sunita Sarawagi Annual Conference of ISCA, a.k.a. <b>INTERSPEECH 2020</b>	
	• Are BERT Named Entity Representations just as Good for any other Name? Sriram Balasubramanian, Naman Jain, Gaurav Jindal, Abhijeet Awasthi, Sunita Sarawagi Fifth Workshop on Representation Learning for NLP, <b>RepL4NLP</b> , ACL 2020	
	• Continual Learning with Neural Networks: A Review Abhijeet Awasthi, Sunita Sarawagi Young Researchers' Symposium at ACM India CODS-COMAD 2019	
Honors	• AAAI Student Scholarship (2023)	
	• Microsoft Research India Travel Grant for attending EMNLP-IJCNLP (2019)	
	• Google PhD Fellowship in Machine Learning (2018)	
	• Prime Minister Research Fellowship (2018)	
	• Merit-Cum-Means (MCM) scholarship for all the semesters at IIT Kharagpur (2012-2016)	
	• All-India Rank 691 out of 480,000 students in IIT Joint Entrance Examination. (2012)	
Competitions	<b>Grammatical Error Correction</b> Our team ML@IITB was ranked 7 <sup>th</sup> in Building Educational Applications 2019 Shared Task for Grammatical Error Correction. Our system had the highest recall among all the competing systems.	
Coursework	• Machine Learning: Foundations of Machine Learning, Advanced Machine Learning, Founda- tions of Intelligent and Learning Agents (Reinforcement Learning), Organization of Web Informa- tion (Information Extraction)	
	• Mathematics: Convex Optimization, Matrix Algebra, Probability and Stochastic Processes	
	• <b>Computer Science</b> : Design and Analysis of Algorithms, Discrete Structures, Data Structures and Object Representation, Database Management Systems, Advanced Operating System Design	
	• <b>Signal Processing</b> : Signals and Systems, Digital Signal Processing, Digital Signal Processing Applications, Digital Image Processing	
Programming Skills	• Languages: Python, C, C++	
	• Libraries: TensorFlow, PyTorch, DeepSpeed, HuggingFace, T5X, AllenNLP, NLTK, NumPy	
	• Tools: $\mathbb{IAT}_{E}X$ , Google Cloud Platform, Microsoft Azure, Android Studio	
SERVICE	• <b>Teaching Assistantships</b> : Maths for Visual Computing (2018), Design and Analysis of Algorithms (2019), Foundations of Machine Learning (2019), Advanced Machine Learning (2020)	
	• Conference Reviewing: ICML-20, ICLR-21, AAAI-21, NeurIPS-22, EMNLP-22, AACL-22, IJCAI-23, NeurIPS-23	
	• Student Volunteering: ICLR-20, ICML-20, EMNLP-22, AAAI-23	
	• National Service Scheme volunteer at Golghoria village in Kharagpur, West Bengal (2012-2014)	