

Harshita Diddee

PhD Student, Carnegie Mellon University

[Portfolio](#) [Github](#) [Google Scholar](#) [Email](#)

Education

August 2023	Carnegie Mellon University	Pittsburgh, USA
Spring 2028	PhD, Language Technologies Institute: Advised by Daphne Ippolito Working on Data Quality Estimation and Watermarking LLM Generations.	
May 2017	Guru Gobind Singh Indraprastha University	Delhi, India
Jun 2021	B.Tech., Computer Science & Engineering Department Rank: 2/120 Graduated as the Best Outgoing Student for the Class of 2021	

Select Experience

Jul 2021	Microsoft Research	Bangalore, India
July 2023	SCAI Centre Fellow Advisor: Dr. Kalika Bali Developing edge-friendly machine translation models for extremely low-resource languages. Evaluating GPT across its (a) multi-lingual abilities (b) task-coverage and (c) capability as an evaluator.	
Jun 2022	Johns Hopkins University	Baltimore, USA
Aug 2022	Visting Pre-Doctoral Research Host: JSALT'22 Evaluated the generalizability of speech and text cross-lingual models to extremely low-resource languages as a part of the Speech Translation for Under-Resourced Languages Track.	
May 2019	Indian Institute Of Technology, Delhi (IIT-D)	Delhi, India
Oct 2019	Research Intern Advisor: Aakanksha Chowdhery , Google Brain Developed a federated learning enabled custom deep learning model that powers VisionAir, an android application that predicts the Real-Time Air Quality Index of an image.	

Select Research Publications

Complete List at [Google Scholar](#)

- [C] **MEGA: Multilingual Evaluation of Generative AI** [\[🔗\]](#)
Kabir Ahuja, [Harshita Diddee](#), ..., [Kalika Bali](#), [Sunayana Sitaram](#)
To Appear in EMNLP 2023 [EMNLP 2023]
- [C] **Fifty Shades of Bias: Normative Ratings of Gender Bias in GPT Generated English Text**
Rishav Hada, [Agrima Seth](#), [Harshita Diddee](#), [Kalika Bali](#)
To Appear in EMNLP 2023 [EMNLP 2023]
- [C] **Too Brittle To Touch: Comparing the Stability of Quantization and Distillation Towards Developing Lightweight Low-Resource MT Models** [\[🔗\]\[Code\]](#)
[Harshita Diddee](#), [Sandipan Dandapat](#), [Monojit Choudhury](#), [Tanuja Ganu](#), [Kalika Bali](#)
Seventh Conference on Machine Translation [WMT 2022]

Select Research Projects

Interactive Neural Machine Translation-Lite (INMT-Lite) <i>Advisors: Dr. Monojit Choudhury, Dr. Tanuja Ganu, Dr. Sandipan Dandapat, Dr. Kalika Bali [Code]</i> > Built lightweight translation (<200MB) models for extremely low-resource languages like Gondi and Mundari (<25000 parallel sentences). Designed decoding pipeline to provide candidate translation suggestions to users.	Jul'21 - May'23
Automatic Speech Recognition for Extremely Low-Resource Languages <i>Advisors: Dr. Sunayana Sitaram, Dr. Kalika Bali [🔗][Code]</i> > Proposed the use of KenLM-based inference during training to select best-model more reliably. > Won third prize in <i>The AmericasNLP Shared Task for Low-Resource ASR</i> .	Oct'22 - Dec'22
VisionAir: Federated Learning Enabled Air Quality Estimation <i>Advisor: Dr. Aakanksha Chowdhery [🔗][Code]</i> > Developed the compound deep neural network-based pipeline to replace the conventionally used convolution-based neural model so that we could train the model on edge ..	Jun'19 - Feb'20