

# ADITYA YADAVALLI

 [adityayadavalli1.github.io](https://github.com/adityayadavalli1)  [a1yadavalli@ucsd.edu](mailto:a1yadavalli@ucsd.edu)  [AdityaYadavalli1](#)  [Google Scholar](#)

## EDUCATION

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**University of California San Diego (UCSD)** 2025 –  
Ph.D. in Data Science  
Advisor: [Prof. Alex Warstadt](#)

**International Institute of Information Technology, Hyderabad (IIIT-H)** 2017 – 2022  
M.S (by Research) in Computational Linguistics  
B.Tech. (Hons.) in Computer Science  
Committee: [Prof. Anil Kumar Vuppala](#) (advisor), [Dr. Kishore Prahallad](#), [Prof. Chiranjeevi Yarra](#)  
Thesis: Leveraging Language Relatedness to Improve Language Models in Speech Recognition Systems

## RESEARCH EXPERIENCE

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**Google DeepMind** Jun 2026 –  
*Student Researcher, Hosts: [Dr. Rodrigo Mira](#), [Dr. Sian Gooding](#), [Dr. Ed Grefenstette](#)* London, UK

**LeMN Lab, UCSD** Sept 2025 –  
*Research Assistant, Advisor: [Prof. Alex Warstadt](#)* San Diego, US

**Karya** Jun 2022 – Jul 2025  
*Speech/NLP Engineer, Mentor: [Dr. Vivek Seshadri](#)* Remote / Bangalore, India

**Dept. of Cognitive Science, Case Western Reserve University** Oct 2021 – Jul 2023  
*Visiting Researcher, Advisor: [Prof. Vera Tobin](#)* Remote / Cleveland, US

**Speech Processing Lab, IIIT-H** May 2019 – May 2022  
*Researcher Assistant, Advisor: [Prof. Anil Kumar Vuppala](#)* Hyderabad, India

## PUBLICATIONS (J=JOURNAL, C=CONFERENCE, W=WORKSHOP, S=IN SUBMISSION)

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- [S.1] **Aditya Yadavalli**, Junghyun Min, Tiago Pimentel, Tamar Regev, Ethan Wilcox, Alex Warstadt “Nightingale: An Interleaved Prosody–Text Language Model”, *Submitted to ACL Rolling Review* October 2026.
- [C.1] Shivam Singh, **Aditya Yadavalli**, Catherine Arnett, Alex Warstadt “BuzzASR: A Swarm of 100+ Monolingual Speech Recognition Models”, *To Appear* In Findings of the Association for Computational Linguistics: EMNLP 2026.
- [C.2] **Aditya Yadavalli**, Tiago Pimentel, Tamar I. Regev, Ethan Wilcox, Alex Warstadt “What Do Prosody and Text Convey? Characterizing How Meaningful Information is Distributed Across Multiple Channels”, In Proceedings of the 64th Annual Meeting of the Association for Computational Linguistics 2026.
- [C.3] Neha Joshi, Pamir Gogoi, AasimBaig Mirza, Aayush Jansari, **Aditya Yadavalli**, Ayushi Pandey, Arunima Shukla, Deepthi Sudharsan, Kalika Bali, Vivek Seshadri, “ELR-1000: A Community-Generated Dataset for Endangered Indic Indigenous Languages”, In Proceedings of the 4th Conference of the Asia-Pacific Chapter of the Association for Computational Linguistics and the 14th International Joint Conference on Natural Language Processing.
- [C.4] Ishaan Watts, Varun Gumma, **Aditya Yadavalli**, Vivek Seshadri, Manohar Swaminathan, Sunayana Sitaram “PARIKSHA : A Large-Scale Investigation of Human-LLM Evaluator Agreement on Multilingual and Multi-Cultural Data”, 2024 Conference on Empirical Methods in Natural Language Processing.

- [C.5] Advait Bhat\*, Nidhi Kulkarni\*, Safiya Husain, **Aditya Yadavalli**, Jivat Neet Kaur, Anurag Shukla, Monali Shelar, Vivek Seshadri, “Speaking in Terms of Money: Financial Knowledge Acquisition through Speech Data Generation”, Proceedings of the 7th ACM SIGCAS/SIGCHI Conference on Computing and Sustainable Societies (COMPASS ’24).
- [C.6] Abraham Owodunni\*, **Aditya Yadavalli\***, Chris Emezue\*, Tobi Olatunji\*, Clinton Mbataku, “AccentFold: A Journey through African Accents for Zero-Shot ASR Adaptation to Target Accents”, In Findings of the Association for Computational Linguistics: EACL 2024.
- [C.7] Rishav Hada, Safiya Husain, Varun Gumma, Harshita Diddee, **Aditya Yadavalli**, ..., Aditya Vashistha, Vivek Seshadri, Kalika Bali, “*“Akal Badi ya Bias”*: An Exploration Study of Gender Bias in Hindi”, Proceedings of the 2024 ACM Conference on Fairness, Accountability, and Transparency (FAccT ’24) [\[Best Paper Award\]](#).
- [W.1] Varun Gumma, Rishav Hada, **Aditya Yadavalli**, Pamir Gogoi, Ishani Mondal, Vivek Seshadri, Kalika Bali, “MunTTS: A Text-to-Speech System for Mundari”, In Proceedings of the Seventh Workshop on the Use of Computational Methods in the Study of Endangered Languages.
- [J.1] Tobi Olatunji, Tejumade Afonja, **Aditya Yadavalli**, ..., “AfriSpeech-200: Pan-African Accented Speech Dataset for Clinical and General Domain ASR”, In Transactions of Association for Computational Linguistics 2023.
- [C.8] **Aditya Yadavalli\***, Alekhya Yadavalli\*, Vera Tobin, “SLABERT Talk Pretty One Day: Modeling Second Language Acquisition with BERT”, In Proceedings of the 61th Annual Meeting of the Association for Computational Linguistics 2023.
- [C.9] Mehrad Moradshahi\*, Tianhao Shen\*, Kalika Bali, Monojit Choudhury, ..., **Aditya Yadavalli**, Chaobin You, Deyi Xiong, Monica Lam, “X-RiSAWOZ: High-Quality End-to-End Multilingual Dialogue Datasets and Few-shot Agents”, In Findings of the Association for Computational Linguistics: ACL 2023.
- [C.10] Shelly Jain\*, **Aditya Yadavalli\***, Ganesh S Mirishkar, Anil Kumar Vuppala, “How do Phonological Properties Affect Bilingual Automatic Speech Recognition?”, 2022 IEEE Spoken Language Technology Workshop (SLT).
- [C.11] **Aditya Yadavalli**, Ganesh S Mirishkar, Anil Kumar Vuppala, “Multi-Task End-to-End Model for Telugu Dialect and Speech Recognition”, In Proceedings of Interspeech 2022.
- [W.2] **Aditya Yadavalli**, Ganesh S Mirishkar, Anil Kumar Vuppala, “Exploring the Effect of Dialect Mismatched Language Models in Telugu Automatic Speech Recognition”, In Proceedings of the 2022 Conference of the North American Chapter of the Association for Computational Linguistics: Student Research Workshop.
- [C.12] **Aditya Yadavalli**, Shelly Jain, Ganesh S Mirishkar, Anil Kumar Vuppala, “Investigation of Subword-Based Bilingual Automatic Speech Recognition for Indian Languages”, In Proceedings of the 2022 Fourteenth International Conference on Contemporary Computing (IC3-2022).
- [C.13] Shelly Jain\*, **Aditya Yadavalli\***, Ganesh S Mirishkar\*, Chiranjeevi Yarra, Anil Kumar Vuppala, “IE-CPS Lexicon: An Automatic Speech Recognition Oriented Indian-English Pronunciation Dictionary”, In Proceedings of the 18th International Conference on Natural Language Processing (ICON) 2021.
- [C.14] Ganesh S Mirishkar, **Aditya Yadavalli**, Anil Kumar Vuppala, “An Investigation of Hybrid architectures for Low Resource Multilingual Speech Recognition system in Indian context”, In Proceedings of the 18th International Conference on Natural Language Processing (ICON) 2021.
- [C.15] Nayan Vats, **Aditya Yadavalli**, Krishna Gurugubelli, Anil Kumar Vuppala, “Acoustic Features, BERT Model and their Complementary Nature for Alzheimer’s Dementia Detection”, In Proceedings of the 2021 Thirteenth International Conference on Contemporary Computing (IC3-2021).

## SELECTED PROJECTS

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### Sanmati

April 2023 – February 2026

Advisors: *Dr. Kalika Bali, Dr. Vivek Seshadri*

- Funded by Bill & Melinda Gates Foundation (BMGF)
- Evaluating for gender-bias in ASR and MT systems for low-resource Indic languages
- Designing tasks & its instructions to create the largest gender-intentional dataset to mitigate bias in Indic NLP models

### Voice Chatbot for Tuberculosis Awareness

Jun 2023 – April 2025

Advisor: *Dr. Vivek Seshadri*

- Funded by Karnataka Health Promotion Trust (KHPT)
- Designed mechanisms to automatically verify crowd-sourced Kannada TB speech dataset
- Built the Kannada Tuberculosis ASR system that powers the chatbot
- Covered as part of the TIME cover story [here](#)

### ASR Track in AmericasNLP at NeurIPS 2022

Sep 2022 – Nov 2022

Advisors: *Dr. Kalika Bali, Dr. Sunayana Sitaram, Dr. Vivek Seshadri*

- Part of the Karya-MSRI team that participated in AmericasNLP 2022 Shared Task
- Explored feature fusion techniques and utilized language models to select the best ASR model
- 3rd best performance in ASR track 1

## TEACHING EXPERIENCE

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### Large Language Models as Cognitive Models

Spring 2026

Teaching Assistant, Instructor: *Prof. Alex Warstadt*

San Diego, US

### Alternate Religious Traditions in Indian History

Spring 2021

Teaching Assistant, Instructors: *Prof. Nilam Kakati, Prof. Aniket Alam*

Hyderabad, India

## SERVICE

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|--------------------|----------------------------------------------------------------------------------------------------------------------|
| <b>Reviewer</b>    | ARR 2023 – 2026, CompDevLing@ACL 2026, CogSci 2026, NAACL SRW 2024, EMNLP 2023, ACL 2023, DravidianLangTech@ACL 2022 |
| <b>Volunteer</b>   | Clinical Speech Group at Masakhane                                                                                   |
| <b>Contributor</b> | Dialogues@Stanford-Oval                                                                                              |

## HONOURS/AWARDS

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|                             |                                                                  |
|-----------------------------|------------------------------------------------------------------|
| <b>Best Paper Award</b>     | FACCT 2024                                                       |
| <b>Travel Grant</b>         | NAACL SRW Travel Grant in 2022                                   |
| <b>Academic Performance</b> | Deans List in Spring '20 & Merit List in Monsoon '20, Spring '21 |

## MISCELLANEOUS

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|                           |                                          |
|---------------------------|------------------------------------------|
| <b>Computer Languages</b> | Python, C/C++, Bash, Swift, Javascript   |
| <b>Frameworks</b>         | PyTorch, HuggingFace Transformers, React |
| <b>Toolkits</b>           | ESPnet, Kaldi, Moses                     |