

# Anvesh Rao Vijjini

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## Research Interests

Broadly interested in Alignment, Fairness, Safety, Social Commonsense, and Personalization, within AI and NLP.

## Education

- 2021 - present **PhD in Computer Science**,  
*University of North Carolina at Chapel Hill*.  
Advisor: Dr. Snigdha Chaturvedi
- 2017 - 2021 **MS in Computational Linguistics**,  
*International Institute of Information Technology, Hyderabad*.  
Advisor: Dr. Radhika Mamidi
- 2013 - 2017 **B.Tech in Computer Science**,  
*International Institute of Information Technology, Hyderabad*.  
Awarded Dean's List for being in the top 10% of the class in academics for Monsoon 2015 and Spring 2016 semesters.

## Experience

- May 2024 - **Research Intern at Bloomberg**.  
July 2024 Worked on extracting universal entity representations from large language models.
  - Explored how large language models inherently encode rich entity representations in-context. Without any entity-specific fine-tuning, entity representations extracted from decoder-based LLMs can be applied to tasks such as entity linking, entity typing, slot filling, and question answering by leveraging ranking and clustering with embeddings.
- May 2023 - **Research Intern at Bloomberg**.  
July 2023 Worked on document expansion with large language models for improving document retrieval.
  - Improving document retrieval by using large language models to generate and integrate a diverse set of questions into documents (document expansion), enriching content for improved search results.
- May 2022 - **Research Intern at Adobe**.  
July 2022 Worked on transcript segmentation at Project Blink, Adobe's video sharing platform.
  - Proposed a pretraining strategy that improves transcript segmentation by training in a curated order, with samples arranged in increasing similarity. Published our work at EACL 2023 (Findings)

- August 2018 - **Lead Engineer (Research) at Samsung R&D Institute India-Bangalore.**
- August 2021 Worked at Bixby Intelligence, Samsung's voice assistant.
- Automated WER Prediction of Bixby's ASR.
  - Automated Conversation Quality Estimation for the performance evaluation of Bixby conversations.
  - Data Augmentation to eschew manual annotations.
  - Authored research papers based on Text classification and Domain Adaptation at EMNLP 2019, CICLing 2019, NLDB 2019, NLDB 2020, ICPR 2020 and EACL 2021.
- Spring 2017 **Teaching Assistant, *Natural Language Application.***
- 2017 The course covers popular Machine Translation (statistical) methods at the time such as IBM Models, Phrase-Based Models, and Neural Machine Translation.
- Monsoon 2016 and 2017 **Teaching Assistant, *Natural Language Processing.***
- 2016 and 2017 An overview of various areas in NLP such as Tokenization, Parts Of Speech tagging, Natural Language Generation and Parsing.

## Volunteer

- Reviewer for NAACL 2023, EMNLP 2022, ACL 2020, EMNLP 2020, NLP+CSS @ EMNLP 2020, EACL 2021, ACL 2021, EMNLP 2022, EACL 2023, ACL 2023
- Student Volunteer for EACL 2023
- Sessions Chair for NLDB 2020
- Board member for STEM Pride of the Triangle ([stempride.web.unc.edu](http://stempride.web.unc.edu))

## Conference Publications

- October 2024 **Exploring Safety-Utility Trade-Offs in Personalized Language Models, *Anvesh Rao Vijjini\**, Somnath Basu Roy Chowdhury, and Snigdha Chaturvedi.**  
under review
- June 2024 **SocialGaze: Improving the Integration of Human Social Norms in Large Language Models, *Anvesh Rao Vijjini*, Rakesh Menon, Jiyai Fu, Shashank Shrivastava and Snigdha Chaturvedi.**  
EMNLP 2024 (Findings)
- October 2023 **PARROT: Zero-Shot Narrative Reading Comprehension via Parallel Reading, *Chao Zhao, Anvesh Rao Vijjini*, and Snigdha Chaturvedi.**  
EMNLP 2023 (Findings).
- January 2023 **Curricular Next Conversation Prediction Pretraining for Transcript Segmentation, *Anvesh Rao Vijjini*, Hanieh Deilamsalehy, Franck Dernoncourt and Snigdha Chaturvedi.**  
EACL 2023 (Findings).
- October 2022 **Towards Inter-character Relationship-driven Story Generation, *Anvesh Rao Vijjini*, Faeze Brahman and Snigdha Chaturvedi.**  
EMNLP 2022.
- April 2021 **WER-BERT: Automatic WER Estimation with BERT in a Balanced Ordinal Classification Paradigm, *Anvesh Rao Vijjini\**, Akshay Krishna Sheshadri\* and Sukhdeep Kharbanda.**  
EACL 2021.

- January 2021 **Sequential Domain Adaptation through Elastic Weight Consolidation for Sentiment Analysis**, *Avinash Madasu and Anvesh Rao Vijjini*.  
ICPR 2020
- June 2020 **A SentiWordNet Strategy for Curriculum Learning in Sentiment Analysis**, *Anvesh Rao Vijjini\**, *Kaveri Anuranjana\** and *Radhika Mamidi*.  
NLDB 2020
- June 2020 **A Position Aware Decay Weighted Network For Aspect Based Sentiment Analysis**, *Avinash Madasu and Anvesh Rao Vijjini*.  
NLDB 2020
- November 2019 **Sequential Learning of Convolutional Features for Effective Text Classification**, *Avinash Madasu and Anvesh Rao Vijjini*.  
EMNLP-IJCNLP 2019
- June 2019 **Gated Convolutional Neural Networks for Domain Adaptation**, *Avinash Madasu and Anvesh Rao Vijjini*.  
NLDB 2019
- April 2019 **HindiRC: A Dataset for Reading Comprehension in Hindi**, *Anvesh Rao Vijjini\**, *Kaveri Anuranjana\** and *Radhika Mamidi*.  
CICLing 2019
- April 2019 **Effectiveness of Self Normalizing Neural Networks for Text Classification**, *Avinash Madasu and Anvesh Rao Vijjini*.  
CICLing 2019
- August 2018 **Twitter corpus of Resource-Scarce Languages for Sentiment Analysis and Multilingual Emoji Prediction**, *Narendra Choudhary, Rajat Singh, Anvesh Rao Vijjini* and *Manish Shrivastava*.  
COLING 2018

## Workshop Publications

- April 2021 **Analyzing Curriculum Learning for Sentiment Analysis along Task Difficulty, Pacing and Visualization Axes**, *Anvesh Rao Vijjini\**, *Kaveri Anuranjana\** and *Radhika Mamidi*.  
Workshop on Computational Approaches to Subjectivity, Sentiment & Social Media Analysis (WASSA) at EACL 2021.
- August 2019 **Hindi Question Generation Using Dependency Structures**, *Anvesh Rao Vijjini\**, *Kaveri Anuranjana\** and *Radhika Mamidi*.  
Workshop on Humanizing AI (HAI) at IJCAI 2019.
- August 2018 **Towards Enhancing Lexical Resource and Using Sense-annotations of On-toSenseNet for Sentiment Analysis**, *Sreekavitha Parupalli, Anvesh Rao Vijjini* and *Radhika Mamidi*.  
Workshop on Semantic Deep Learning (SemDeep-3) at COLING 2018.

## Theses

- MS Theses **Towards Adapting Curriculum Learning for Sentiment Analysis: Challenges and Analyses**, *Anvesh Rao Vijjini* and *Radhika Mamidi*.