Anvesh Rao Vijjini

linkedin.com/in/anvesh-rao/
github.com/nvshrao
nvshrao.github.io
✆ *+1(984) 322-8184*
✉ *anveshrao1@gmail.com*

Research Interests

Currently interested in Summarization, Question Answering, Commonsense, Inter-personal Relationships and Conflicts, Narrative Language, Language Generation.

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 2023 - July 2023 **Research Intern at Bloomberg**.
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 - July 2022 **Research Intern at Adobe**.
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 - August 2021 **Lead Engineer (Research) at Samsung R&D Institute India-Bangalore**.
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*.
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*. 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.
- Student Volunteer awarded for EACL 2023.
- Sessions Chair for NLDB 2020
- Board member for STEM Pride of the Triangle (stempride.web.unc.edu)

Conference Publications

December 2023	**Perspectives on Blame and Innocence: Analysis of Large Language Models for Social Judgment in Narratives**, *Anvesh Rao Vijjini, Rakesh Menon, Shashank Shrivastava and Snigdha Chaturvedi*. Under Review at NAACL 2023
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**, *Nurendra 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 OntoSenseNet for Sentiment Analysis**, *Sreekavitha Parupalli, **Anvesh Rao Vijjini** and Radhika Mamidi*.
Workshop on Semantic Deep Learning (SemDeep-3) at COLING 2018.

July 2018 **BCSAT: A Benchmark Corpus for Sentiment Analysis in Telugu Using Word-level Annotations**, *Sreekavitha Parupalli, **Anvesh Rao Vijjini** and Radhika Mamidi*.
Student Research Workshop (SRW) at ACL 2018.

July 2018 **Towards Automation of Sense-type Identification of Verbs in OntoSenseNet**, *Sreekavitha Parupalli, **Anvesh Rao Vijjini** and Radhika Mamidi*.
Workshop on Natural Language Processing for Social Media (SocialNLP) at ACL 2018.

Theses

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