

Deepak Nathani

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About Me

I am a 1st year Ph.D Student at *University of California, Santa Barbara*, advised by Dr. William Yang Wang. My research interests revolve around Commonsense Reasoning, Conversational Text Generation, and Natural Language Generation.

Education

- 2022–Present **PhD, Computer Science**
University of California Santa Barbara
Advisor: [Dr. William Yang Wang](#).
- 2015–2019 **B.Tech, Mechanical Engineering**
Indian Institute of Technology Hyderabad.
- 2017–2019 **B.Tech, Computer Science and Engineering (Second Major)**
Indian Institute of Technology Hyderabad
Advisor: [Dr. Manohar Kaul](#).

Publications

Conference Publications

- [1] Kalpesh Krishna, **Deepak Nathani**, Xavier Garcia, Bidisha Samanta, and Partha Talukdar. Few-shot controllable style transfer for low-resource multilingual settings. In *Proceedings of the 60th Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, Dublin, Ireland, May 2022. Association for Computational Linguistics.
- [2] Jatin Chauhan, **Deepak Nathani**, and Manohar Kaul. Few-shot learning on graphs via super-classes based on graph spectral measures. In *International Conference on Learning Representations*, 2020.
- [3] Sumit Bhatia, Bapi Chatterjee, **Deepak Nathani**, and Manohar Kaul. A persistent homology perspective to the link prediction problem. In *Complex Networks and Their Applications VIII*, pages 27–39. Springer International Publishing, 2020.
- [4] **Deepak Nathani**, Jatin Chauhan, Charu Sharma, and Manohar Kaul. Learning attention-based embeddings for relation prediction in knowledge graphs. In *Proceedings of the 57th Annual Meeting of the Association for Computational Linguistics*. Association for Computational Linguistics, 2019.
- [5] Charu Sharma, **Deepak Nathani**, and Manohar Kaul. Solving partial assignment problems using random clique complexes. In *Proceedings of the 35th International Conference on Machine Learning, ICML 2018, Stockholm, Sweden, July 10-15, 2018*, pages 4593–4602, 2018.

Professional Experience

- 2020–2022 **Pre-Doctoral Researcher**, *Google Research India*, Bengaluru.
 Advisor: Dr. Partha Talukdar
 Worked towards creating a Conversational Health Assistant and improving Text Style Transfer models.
- 2019–2020 **Software Engineering AMTS**, *Salesforce.com*, Hyderabad.
- 2018–2018 **Summer Research Intern**, *IBM Research Labs*, New Delhi.
 Advisor: Dr. Sumit Bhatia, Dr. Bapi Chatterjee
 Used Persistent Homology to learn shape and structure of the neighbourhood of a data item(node) and predict furtherlinks.

Awards & Scholarships

- 2022 **Academic Excellence Fellowship**, *University of California*, Santa Barbara.

Academic Service

- Reviewer SoCal NLP 2022, ICLR 2021-2023, NeurIPS 2021, EMNLP 2021
 Sub-Reviewer NeurIPS 2020

Projects

Predicting Product Review helpfulness.

Advisor: Dr. Maunendra Sankar Desarkar
 Predicting review helpfulness from the review text and information about the reviewer. Used language model and designed our own metric for calculating user rating.

Classical Music Generation.

Advisor: Dr. Vineeth N Balasubramaniam
 Used LSTMs to learn the notes and chords from classical music pieces. The model was trained on 3 different Artists and could generate music which was similar to the artist given.

Movie Recommendation System.

Advisor: Dr. Manohar Kaul
 Designed a database from scratch for movie recommender system. The project involved collecting data, designing a database schema, storing the data in the database using PostgreSQL. For generating recommendations we implemented user-user collaborative filtering algorithm.

Technical Skills

- Programming C, C++, Python, MATLAB/Octave
 Framework Tensorflow, PyTorch, Scikit-Learn

Miscellaneous

- 2017-2019 Coordinator, Inero - Programming Club, IIT Hyderabad
 2018 Rank 30/250 teams, ACM-ICPC Amritapuri Regional