

## Research Interests

*Deep Learning Theory; ML Applications to Finance.*

## Work Experience

June, 2021– Sep 2022 **Google AI Research.**

June, 2020– August, 2020 **Learngam AI.**

January, 2018– May, 2018 **NewsInfo.**

## Education

Sep, 2022– Present **PhD in Computer Science, University of California, Los Angeles.**

July, 2017– June 2021 **BTech in Computer Science And Engineering, Indian Institute of Technology(IIT) Hyderabad.**

## Publications

- 2023 **Universality and Limitations of Prompt Tuning**  
**NeurIPS 2023**  
Yihan Wang, **Jatin Chauhan**, Wei Wang and Cho-Jui Hsieh
- 2023 **Improving Fairness-Accuracy tradeoff with few Test Samples under Covariate Shift**  
**NeurIPS 2023 AFT Workshop**  
Shreyas Havaldar\*, **Jatin Chauhan\***, Karthikeyan Shanmugam\*, Jay Nandy and Aravindan Raghuv eer - (\* equal contribution)
- 2023 **Learning Over Molecular Conformer Ensembles: Datasets and Benchmarks**  
**NeurIPS 2023 AI4Science Workshop**  
Yanqiao Zhu, Jeehyun Hwang, Keir Adams, Zhen Liu, Bozhao Nan, Brock Stenfors, Yuanqi Du, **Jatin Chauhan**, Olaf Wiest, Olexandr Isayev, Connor Coley, Yizhou Sun and Wei Wang
- 2023 **Learning under Label Proportions for Text Classification**  
**EMNLP 2023 - Findings**  
**Jatin Chauhan**, Xiaoxuan Wang and Wei Wang
- 2023 **Non-Uniform Adversarial Perturbations for Discrete Tabular Datasets**  
**CIKM 2023**  
Jay Nandy, **Jatin Chauhan**, Rishi Saket and Aravindan Raghuv eer
- 2022 **Multi-Variate Time Series Forecasting on Variable Subsets**  
**KDD 2022**  
**Jatin Chauhan**, Aravindan Raghuv eer, Rishi Saket, Jay Nandy and Balaraman Ravindran
- 2022 **Domain-Agnostic Constrastive Representations for Learning from Label Proportions**  
**CIKM 2022**  
Jay Nandy, Rishi Saket, Prateek Jain, **Jatin Chauhan**, Balaraman Ravindran and Aravindan Raghuv eer

- 2022 **BERTops: Studying BERT Representations under a Topological Lens**  
**IJCNN 2022**  
Jatin Chauhan and Manohar Kaul
- 2021 **A Probabilistic Framework for Knowledge Graph Data Augmentation**  
**NeurIPS 2021 DCAI Workshop**  
Jatin Chauhan\*, Priyanshu Gupta\* and Pasquale Minervini
- 2020 **Learning Representations using Spectral-Biased Random Walks on Graphs**  
**IJCNN 2020**  
Charu Sharma, Jatin Chauhan and Manohar Kaul
- 2020 **Few-Shot Learning on Graphs via Super-Classes based on Graph Spectral Measures**  
**ICLR 2020**  
Jatin Chauhan, Deepak Nathani and Manohar Kaul
- 2019 **Learning Attention-based Embeddings for Relation Prediction in Knowledge Graphs**  
**ACL 2019**  
Deepak Nathani\*, Jatin Chauhan\*, Charu Sharma\* and Manohar Kaul  
(\* equal contribution)

#### Preprints and Other Works

- 2023 **Beyond Traditional Text Classification: Generalized Zero-Shot Learning Approach for Long Documents**  
Under Review
- 2021 **Target Model Agnostic Adversarial Attacks with Query Budgets on Language Understanding Models**  
Preprint  
Jatin Chauhan, Karan Bhukar and Manohar Kaul

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#### Achievements

- 2020 **Undergraduate Research Excellence Award**
- 2019 **Top 15 in PanIIT Hackathon: Artificial Intelligence for India**
- 2019 **Microsoft Research Travel Grant for ACL 2019**
- 2018 **Runner-Up: Tinkerer's Lab Competition on AI**

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#### Teaching

- At UCLA **Introduction to Computer Science I**
- At IITH **Introduction to Programming:**

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#### Service

**Membership:** ACM

**Reviewer:** ICML 2023, ICLR 2023, LoG Conference, NeurIPS 2022, ICLR 2022 (Highlighted Reviewer), ICLR 2022-GTRL Workshop, NeurIPS 2021

**External Reviewer:** ICML 2021, AAAI 2021, ICLR 2021, NeurIPS 2020, EMNLP 2020, ACL 2020, NeurIPS 2019

**Volunteering:** IIT Hyderabad ACM Chapter, NSS IIT Hyderabad