

Research Interests

Machine Learning for Finance; Deep Learning Theory.

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

- 2024 **Fairness under Covariate Shift: Improving Fairness-Accuracy tradeoff with few Un-labeled Test Samples**
AAAI 2024 (also at NeurIPS 2023 AFT Workshop)
Shreyas Havaladar*, **Jatin Chauhan***, Karthikeyan Shanmugam*, Jay Nandy and Aravindan Raghuv eer - (* equal contribution)
- 2024 **Learning Over Molecular Conformer Ensembles: Datasets and Benchmarks**
ICLR 2024 (also at 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 **Universality and Limitations of Prompt Tuning**
NeurIPS 2023
Yihan Wang, **Jatin Chauhan**, Wei Wang and Cho-Jui Hsieh
- 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 Raghuveer
- 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

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**

Teaching

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

Service

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