

## Work Experience

- July, 2024 - Present **Triomics - Research Scientist.**  
Primary focus on developing LLMs over both structured and unstructured data (both RAG and non-RAG based). Alongside, I also spend around 50% of my time on deploying these models in the Triomics' product pipeline. This includes my involvement as a co-lead on a pilot project for a Fortune 10 client.
- Nov, 2023 - March 2024 **ScopeFour Capital LLC - Investment Analyst Intern, .**  
Conducted comprehensive equity investment research using diverse sources and developed a customized LLM tailored towards financial data analytics to substantially expedite the research analysis.
- June, 2021 - Sep 2022 **Google Research - Pre-Doctoral Researcher.**  
Focused on developing ML algorithms for Google Ads, enhancing ad targeting and revenue generation for over 10 million SMBs. Led cross-functional collaboration to deploy sophisticated deep learning models across YouTube and Search platforms. Published multiple papers in top-tier AI conferences.
- June, 2020 - August, 2020 **Learngam AI - Machine Learning Intern.**  
Implemented advanced deep learning AI algorithms in beta versions of core products. Presented machine learning-based product concepts to investors and contributed to multi-year product release strategies across key verticals.

## Education

- Sep, 2022– June 2024 **Masters in Computer Science (AI)**, *University of California, Los Angeles.*
- July, 2017– June 2021 **BTech in Computer Science And Engineering**, *Indian Institute of Technology(IIT) Hyderabad.*

## Skillset

- Technical Machine Learning, AI, LLMs, RAG, Python, Pytorch, Azure, AWS, GCP, Git, CI/CD, SQL, Docker, Linux

## 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 Raghuvier - (\* *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 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

#### Achievements

- 2023 **UCLA Innovation Challenge Finals**
- 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

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## 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	Venture Accelerator at UCLA Anderson School of Management, IIT Hyderabad ACM Chapter, NSS IIT Hyderabad