Jatin Chauhan

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Website link

Work Experience

July, 2024 - Jan, 2025   **Triomics - Research Scientist**.
Primarily focused 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   **Learngram 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 Unlabeled Test Samples**
AAAI 2024 (also at NeurIPS 2023 AFT Workshop)
Shreyas Havaldar*, **Jatin Chauhan***, Karthikeyan Shanmugam*, Jay Nandy and Aravindan Raghuveer - (* *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 Raghuveer

2022 **Multi-Variate Time Series Forecasting on Variable Subsets**
KDD 2022
Jatin Chauhan, Aravindan Raghuveer, 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

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

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