CHIRAG CHHABLANI

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EDUCATION

Aug'18 - Present
Aug'11 - May'15
Aug'15 - May'17

PUBLICATIONS

[1] <u>C Chhablani*</u>, K Roy*, M Gaur, "Personalized dialog systems: Combining language models and multistep reasoning" [Under Preparation]

[2] <u>C Chhablani*</u>, S Jain*, I Kash and S Medya, "Game-theoretic Counterfactual Explanation for Graph Neural Networks" WWW, 2024

[3] <u>C Chhablani</u>, V Gurbani, J Hosier and N Sharma, "Digits Micromodel for accurate and secure transactions" AAAI, 2024.

[4] <u>C Chhablani</u> and I Kash, "An Analysis of Connections Between Regret Minimization and Actor Critic Methods in Cooperative Settings," AAMAS, 2023 (Long invited talk by Google Deepmind - 4/53 accepted papers)

[5] C Chhablani, M Sullins and I Kash, "Multiplicative Weights Updates for Extensive Form Games," AA-MAS, 2023

EXPERIENCE

Trustworthy and Intelligent Machine Learning (TIML) Lab, IIT Chicago

Trust ML researcher, Mentor: Dr. Ren Wang

· Proposing certified robustness techniques for dataset poisoning attacks on ML datasets.

· Using variants Mixture of Experts for image and graph datasets to improve exiting state-of-the-art techniques.

Vail Systems R&D group, Chicago, IL

Speech processing & NLP intern, Mentor: Dr. Vijay Gurbani

- \cdot Led the creation, cleaning, curation, and annotation of 42 + hours of training data for multi-digits dataset.
- · Trained ASR language models for voice-banking applications using kaldi toolkit and achieved 50% lower word-error-rate than open-source models like Open AI's Whisper model.

Performance Engineering Group, Argonne National Lab, Lemont, IL

Statistical ML Forecasting & Analysis intern, Mentor: Dr. Kevin Brown

- · Engineered predictive machine learning models to forecast network bandwidth and latency, enhancing data throughput optimization for Aurora supercomputers.
- Developed advanced Quality of Service (QoS) solutions in HPC systems and reduced the bandwidth by 18%.

Zelle, Early Warning Services, Chicago, IL

NLP & Fraud analyst intern, Mentor: Dr. Edwin Campos

- · Leveraged BERT and other encoder models for key phrase for over 7K+ Reddit posts. Enhanced model accuracy by 16% compared to baseline approaches.
- Developed fraud detection techniques for more than 30K+ tweets using ML models.

SKILLS

Jan'24 - present

May'21 - Aug'21

June'23 - Aug'23

Mav'19 - Nov'19