

CHIRAG CHHABLANI

+1(312)619-1682 ◊ 15, 633 S laflin St, Chicago, IL, 60607
cchabh2@uic.edu ◊ linkedin.com/in/chirag-chhablani ◊ chiragchh.github.io

EDUCATION

University of Illinois at Chicago, IL

Ph.D. Computer Science (Reinforcement learning and Trust ML) Aug 18 - Present
Specialization: Reinforcement learning for multiagent systems, Trust ML models especially for GNN.

Birla Institute of Technology and Science, Pilani, India

B.Eng. Electrical and Electronics Engineering Aug 11 - May 15
M.Eng. Software Systems Aug 15 - May 17

PUBLICATIONS

- [1] [C Chhablani*](#), K Roy*, M Gaur, “Personalized dialog systems: Combining language models and multi-step reasoning” [Under Preparation]
- [2] [C Chhablani*](#), S Jain*, I Kash and S Medya, “Game-theoretic Counterfactual Explanation for Graph Neural Networks” *WWW*, 2024
- [3] [C Chhablani](#), V Gurbani, J Hosier and N Sharma, “Digits Micromodel for accurate and secure transactions” *AAAI*, 2024.
- [4] [C Chhablani](#) 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,” *AAMAS*, 2023

EXPERIENCE

Vail Systems R&D group , Chicago, IL

Speech processing & NLP intern with Dr. Vijay Gurbani June 23 - Aug 23

- 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

Deep Learning intern with Dr. Kevin Brown May 21 - Aug 21

- Developed deep learning models for configuring Quality of Service (QoS) solutions in HPC systems.
- Built ML models for accurate bandwidth and latency predictions across large datasets from Aurora supercomputers.

Zelle, Early Warning Services, Chicago, IL

NLP and Fraud analyst intern with Dr. Edwin Campos May 19 - Nov 19

- 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.

Department of Computer science, UIC

Research assistant with Dr. Ian A. Kash Aug 18 - present

- Developed state-of-the-art techniques for RL systems, Large language models, and trustworthy GNN.
- Published the work in top-tier conferences like AAMAS, AAAI and WWW.

SKILLS

Languages C, Java, Python

Tools Pytorch, Tensorflow, Keras Git, Linux, Docker, Flask, Pandas, AWS, GCP, LangChain