
EDUCATION

- **University of Illinois at Chicago (Transferred from K-State)** Chicago, IL
PhD in Computer Science; CGPA: 4.00/4.00 2019 – Now
- **Kansas State University** Manhattan, KS
Computer Science; CGPA: 4.00/4.00 2018 – 2019
- **Calcutta Institute of Engineering and Management** Kolkata, India
Bachelor of Technology in Computer Science and Engineering; DGPA: 8.06/10 2014 – 2017

EXPERIENCE

- **Bloomberg** New York, NY
Data Science Research Intern May 2020 - August 2020 and May 2021 - August 2021
 - Worked on Question Generation and Prompt Tuning (resulting in publication).
- **University of Illinois Chicago** Chicago, IL
Research Assistant June 2019 - May 2020, August 2020 - May 2021, August 2021-Now
 - Developed novel Recursive Neural Network architectures. Worked on several Keyphrase Generation projects. Worked on contrastive learning, large language models, named entity recognition, question generation, and Transformers
- **Kansas State University** Manhattan, KS
Research Assistant Aug 2018 - May 2019
 - Named Entity Recognition and keyphrase extraction on tweets.
- **RBIC Solutions**
Freelance Full Stack Development Sep 2016 - June 2017
 - Developed Menu Management software.

PAPERS

- Modeling Hierarchical Structures with Continuous Recursive Neural Networks - Jishnu Ray Chowdhury, and Cornelia Caragea. In Proceedings of ICML 2021 (Long Talk)
- Novelty Controlled Paraphrase Generation with Retrieval Augmented Conditional Prompt Tuning - Jishnu Ray Chowdhury, Yong Zhuang, Shuyi Wang. In Proceedings of AAAI 2022 (Oral)
- Beam Tree Recursive Cells - Jishnu Ray Chowdhury, and Cornelia Caragea. In Proceedings of ICML 2023
- Monotonic Location Attention for Length Generalization - Jishnu Ray Chowdhury, and Cornelia Caragea. In Proceedings of ICML 2023
- KPDR0P: Improving Absent Keyphrase Generation - Jishnu Ray Chowdhury, Seoyeon Park, Tuhin Kundu, and Cornelia Caragea. In Findings of EMNLP 2022
- Keyphrase Extraction from Disaster-related Tweets. - Jishnu Ray Chowdhury, Cornelia Caragea, and Doina Caragea. In Proceedings of WWW 2019
- Cross-Lingual Disaster-related Multi-label Tweet Classification with Manifold Mixup.-Jishnu Ray Chowdhury, Cornelia Caragea, and Doina Caragea. In Proceedings of ACL SRW 2020
- Efficient Beam Tree Recursion - Jishnu Ray Chowdhury, and Cornelia Caragea. ArXiv 2023
- Data Augmentation for Low-Resource Keyphrase Generation - Kirshna Garg, Jishnu Ray Chowdhury, and Cornelia Caragea. In Findings of ACL 2023
- Neural Keyphrase Generation: Analysis and Evaluation - Tuhin Kundu, Jishnu Ray Chowdhury, and Cornelia Caragea. ArXiv 2023
- Keyphrase Generation Beyond the Boundaries of Title and Abstract - Krishna Garg, Jishnu Ray Chowdhury, Cornelia Caragea. In Findings of EMNLP 2022
- On the Evaluation of Answer-Agnostic Paragraph-level Multi-Question Generation -Jishnu Ray Chowdhury, Debanjan Mahata, Cornelia Caragea. Arxiv 2020
- On Identifying Hashtags in Disaster Twitter Data. - Jishnu Ray Chowdhury, Cornelia Caragea, and Doina Caragea. In Proceedings of AAAI 2020

SELECTED PROJECTS (SEE MORE: [HTTPS://JRC1995.GITHUB.IO/](https://JRC1995.GITHUB.IO/))

- **LLM Zero-Shot Prompt Tech:** Implementation of an LLM prompting pipeline combined with wrappers for auto-decomposing reasoning steps and for search through the reasoning-step-space (eg. by beam search, MCTS etc.) guided by self-evaluation.
- **Conversational Bot:** Chatbot based on hybrid neural retrieval and generation mechanism with TTS on top.
- **Deep Learning Optimizers:** Custom PyTorch optimizers library to allow synergy among optimizer techniques.
- **NER on Social Media:** Empirical evaluation of various NER frameworks and noise-reduction strategies.
- **Text Classification with Capsule Routing:** Empirical and theoretical investigations of various Capsule Routing and attention-based aggregation strategies
- **Reddit-like Website:** Reddit-like website with Vue, MongoDB, MariaDB, Axios, etc.

SKILLS

- Python, Pytorch, Tensorflow, SQL, NoSQL, Vue, NodeJS, JavaScript, Java, C, C++, Octave

SERVICES

- EMNLP 2023 Reviewer, NeurIPS 2023 Reviewer, ACL 2023 Reviewer, ICLR 2023 Reviewer, AAAI 2023 Reviewer, ACL 2021 Reviewer, Multiple ARR Reviews