

Jishnu Ray Chowdhury

<https://jrc1995.github.io/>

Email : jishnu.ray.c@gmail.com

Mobile : +1-408-338-5050

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
 - **Research Intern - Natural language Processing:** Question Generation and Paraphrase Generation.
- **University of Illinois Chicago** Chicago, IL
Research Assistant June 2019 - May 2020 and August 2020 - May 2021
 - **Research Assistant - Natural language Processing:** Proposing Continuous Recursive Neural Networks. Enhancing keyphrase extraction with citation information. Performing Disaster-related Tweet classification. Preparing Twitter Keyphrase extraction and classification dataset. Exploring keyphrase generation and potential ways to improve Transformers.
- **Kansas State University** Manhattan, KS
Research Assistant Aug 2018 - May 2019
 - **Research Assistant - Natural language Processing:** Named Entity Recognition on tweets. Keyphrase Extraction from Tweets. Proposed new evaluation method for keyphrase extraction.
- **RBIC Solutions**
Freelance Full Stack Development Sep 2016 - June 2017

PUBLICATIONS

- “Modeling Hierarchical Structures with Continuous Recursive Neural Networks” - Jishnu Ray Chowdhury, and Cornelia Caragea. In Proceedings of ICML 2021
- “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
- “On Identifying Hashtags in Disaster Twitter Data.”- Jishnu Ray Chowdhury, Cornelia Caragea, and Doina Caragea. In Proceedings of AAAI 2020

PROJECTS (SEE MORE: [HTTPS://JRC1995.GITHUB.IO/](https://jrc1995.github.io/))

- **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 various 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
- **Abstractive Summarization and Translation:** Machine Translation (with Transformers) and Summarization (with Transformer, LSTM) and other experimental models
- **Reddit-like Website:** Reddit-like website with Vue, MongoDB, MariaDB, Axios, etc.

SKILLS

- Python, Pytorch, Tensorflow, SQL, NoSQL, MongoDB, Java, JavaScript, HTML, CSS, Vue, PHP, C, C++, Octave