

# Ankit Aich

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## EDUCATION

### THE UNIVERSITY OF ILLINOIS AT CHICAGO (UIC)

*Ph.D. in Computer Science - Natural Language Processing*

Coursework: NLP - classical and statistical, UI Design, Human Computer Interaction - Robotics, Ethics, Fairness

Chicago, IL  
Jan 2020 - Present

### WEST BENGAL UNIVERSITY OF TECHNOLOGY

*B.Tech in Information Technology* (GPA: 8.37/10)

Final Thesis: Prediction of Protein Protein Interactions using Machine Learning.

WB, India  
Aug 2014 - June 2018

## EXPERIENCES

### UIC - NATURAL LANGUAGE PROCESSING LAB

*Research Assistant*

- Leading a research team with **Dr. Natalie Parde** on Computational Social Science and Natural Language Processing.
- Primary work involves design and analysis of deep neural models and researching transfer learning performances across multiple mental health illnesses

Chicago, IL  
Jan 2020 - Present

### UIC - DEPT OF CS

*Course Builder for NLP*

- Completely built, created, and designed the undergraduate and graduate level course for Natural Language Processing.
- Developed all assignments and projects, Created fresh learning content.

Chicago, IL  
Summer 2021

### UIC - DEPT OF CS

*Teaching Assistant - Programming Language Design/ Software Design with OOP*

- Worked on one-on-one academic advising for students, both juniors and seniors (300 level course).

Chicago, IL  
Spring '20,'21

### MULTIDISCIPLINARY VISION RESEARCH LAB

*Research Intern*

- Led a research team to train a large scale deep neural net to track human iris features
- Developed a tool to filter unseen noises in images taken by the International Space Station.

Rochester, NY  
Summer 2019

### JADAVPUR UNIVERSITY

*Research Intern*

- Developed a package to guide IRB120 robots to perform human-like tasks
- Facilitated a pipeline to help robots play ping-pong.

WB, India  
June 2016 - Aug 2016

### UNACADEMY

*Educator Intern*

- Fully developed, led, and executed a high-following online academic course.
- Created one of the highest rated courses online - 4.7/5.00, Course Followers - 11000+.

India  
March 2016 - May 2016

## PUBLICATIONS

- **Ankit Aich**, Amit Dutta, Aruna Chakraborty, *A Scaled Conjugate Gradient Backpropagation Algorithm for Keyword Extraction*
- **Ankit Aich**, Amit Dutta, Aruna Chakraborty, *A Crawler-Parser-Based Approach to Newspaper Scraping and Reverse Searching of Desired Articles*

## INVITED TALKS

- **On Being an Effective TA** - The University of Illinois at Chicago - 2021
- **Balancing Graduate Student Mental Health** - The University of Illinois at Chicago - 2021
- **Finding the Correct Research Area for PhD Students** - The University of Illinois at Chicago - 2021

## SKILLS

- **Programming:** Python3 | JAVA | C/C++ | MATLAB |
- **Technical:** NLTK, spaCY, Git, PyTorch/ Tensorflow/ Keras, Bash, Tkinter/ JAVAFX.
- **Languages:** English, Bengali, Hindi

## MAJOR PROJECTS

- Analysis and Detection of Misinformation on Social Media, by Training Models to Learn Affective and Psycholinguistic Cues.

- Building Large Scale Deep Models that allow Transductive Learning to find Latent Diseases in People.

## AWARDS

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- Winner - ACL volunteer scholarship 2020
- Winner - Student Research Award - St. Thomas College - West Bengal Univ. of Tech - 2017, 2018
- Nominated - Provost's Award 2021 - The University of Illinois at Chicago.

## NLP COMMUNITY SERVICE

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- Reviewer - Empirical Methods in Natural Language Processing 2020, 2021
- Reviewer - European Chapter of the Assoc. of Computational Linguistics 2021.
- Research Mentor - Led and Mentored graduate and undergraduate students towards NLP research pipelines.