

# Ankit Aich

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## 🎓 Education

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01/2020 – present  
Chicago, USA

### **PhD in Computer Science, University of Illinois**

- Research in Applied Machine learning and Natural Language Processing.
- Low Resource Languages and Analysis
- Misinformation, Fake News, and Generative Modelling
- AI in Healthcare, Mental Healthcare, and Modelling

08/2014 – 05/2018  
Kolkata, India

### **B.Tech in Information Technology, West Bengal Univ of Technology**

- Thesis - Prediction of Protein Interactions using Machine Learning
- Courses - Discrete Math, Image Processing, Object Oriented Programming

## 📄 Publications

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**Telling A Lie: Analyzing the Language of Information and Misinformation during Global Health Events, LREC, ACL**  
Ankit Aich and Natalie Parde

**TweetTaglish: A Dataset for Investigating Tagalog-English Code-Switching, LREC, ACL**  
Megan Herrera, Ankit Aich, and Natalie Parde

**A Scaled Conjugate Gradient Back-propagation Algorithm for Keyword Extraction, Springer Link**  
Ankit Aich, Amit Dutta, and Aruna Chakraborty

**A Crawler-Parser based Approach to Newspaper Scraping and Reverse Searching of Articles, Springer Link**  
Ankit Aich, Amit Dutta, and Aruna Chakraborty

## 👜 Professional Experience

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01/2020 – present  
Chicago, USA

### **Research Assistant, University of Illinois - NLP Lab**

- Research in AI in healthcare - analyzing trends in large scale health datasets
- Building SOTA models to predict mental health diagnoses from social media trends

01/2020 – 12/2021  
Chicago, USA

### **Teaching Assistant / Course Builder, University of Illinois - Department of CS**

- Asst. for Object-Oriented Software Design, Programming Language Design
- Created the Natural Language Processing grad + undergrad course for UIC
- 1-1 guidance for Maven, SQL, Swing, JavaFX, UX Design

05/2019 – 08/2019  
Rochester, USA

### **Research Intern, Multidisciplinary Vision Research Lab**

- Created a deep neural net to identify human irises and aid eye-tracking
- Deployed an end to end software with UI to repair damaged cosmic images

08/2018 – 05/2019  
Rochester, USA

### **Research Assistant Intern, Rochester Inst. Of Technology**

- Developed 3D modeling of human cardiograms and Bayesian optimization for models generated via Gaussian Process-based Active learning.

04/2016 – 06/2016  
India

### **Educator Intern, Unacademy**

- Instructor of online course in English and Functional Language
- 4.7+/5 Rating with 11k enrolled in 2 months

## 🏆 Awards

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2021

### **Research Grant, National Institute of Health**

- Grant of USD 200,000
- Awarded for research on building the first multi-modal mental health clinical dataset.

2020

### **Outstanding Graduate Student - Award for Graduate Research, University of Illinois**

- Nominated for award in graduate studies and research

2018

### **Undergraduate Research Grant, West Bengal Univ of Technology**

- Research Grant of INR 10000 for outstanding research in UX and UI

2017

### **Undergraduate Research Grant, West Bengal Univ of Technology**

- Research Grant of INR 10000 for outstanding research in applied machine learning

## Invited Talks

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- 2021 **How to be an Effective Graduate Teaching Assistant**, *Graduate College UIC*
- 2021 **How to Choose a Research Area in your PhD**, *UIC PhD Graduate College*
- 2022 **Balancing Graduate Life as a PhD Student**, *Graduate College, UIC*

## Organisations

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- 2020 – present **Association for Computational Linguistics**, *Reviewer, Volunteer*
- Reviewer for Top Tier Conferences - EACL, EMNLP
  - Volunteer at Top Tier Conferences - EMNLP, ACL
  - Responsibilities include reviewing novel scholarly work and providing support during conference presentations and proceedings.
- 2021 – 2022 **Graduate Student Council**, *Primary Departmental Representative for CS*
- The primary representative for CS graduate school at UIC
  - Responsible for departmental student issues, departmental events, and student awards.
  - Voicing student concerns at the university administrative level.

## Languages

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- English
- Spanish
- Bengali
- Hindi

## Certificates

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- Data Analysis and Visualization in R
- Ethical Hacking in Linux Frameworks

## Academic Service

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- 2021 – present **Graduate Research Advisor**, *University of Illinois, MS in CS program*
- Academic advisor to research interns at UIC's NLP lab.
  - Advising on generative modeling, fact-checking, and adversarial networks.
  - Advisees secured finished theses and admits in reputed PhD programs.
- 2020 – present **Undergraduate Academic Advisor**, *University of Illinois Dept. of CS*
- Research advisor for undergraduate students.
  - 1-1 advising for research studies, publications, and experiments.
  - Advisees published in top tier conferences in NLP