

# MOHIT CHANDRA

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## RESEARCH SUMMARY

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I'm a 3<sup>rd</sup>-year CS Ph.D. student interested in the intersection of Human-Centered NLP and Social Computing. My research focuses on evaluating, and improving generative AI models and examining their impact on the individuals using them. Specifically, I tackle these challenges using a multi-pronged approach consisting of three line of works: (1) Works developing computational/theoretical frameworks and metrics for evaluating the performance of gen AI models for healthcare/mental health, (2) Developing methods and resources for improving AI models for mental healthcare, and (3) Examining the impact of using AI for mental health care scenarios using experimental studies with end-users. The goal of my research is to develop robust frameworks and methods for evaluating, and enhancing the performance, reliability and safety of AI systems for healthcare, contributing towards advancing state-of-the-art methods in Foundation Models and Human-centered AI.

## EDUCATION

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**Ph.D., Computer Science** (*Advisor: Prof. Munmun De Choudhury*) 08/2022 - 05/2027 (Expected)

Georgia Institute of Technology, Atlanta (GA), USA

**Cumulative GPA: 4.0/4.0**

**B.Tech (Honors) & M.S, Computer Science and Engineering**

08/2015 - 07/2021

International Institute of Information Technology, Hyderabad

**Cumulative GPA: 9.04/10**

## PUBLICATIONS

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Under-Review	<b>Reasoning Is Not All You Need: Examining LLMs for Multi-Turn Mental Health Conversations</b> (Paper Link) <i>Mohit Chandra*</i> , Siddharth Sriraman*, Harneet Singh Khanuja, Yiqiao Jin, Munmun De Choudhury (* Equal Contribution)
Under-Review	<b>Longitudinal Study on Social and Emotional Use of AI Conversational Agent</b> (Paper Link) <i>Mohit Chandra</i> , Javier Hernandez, Gonzalo Ramos, Mahsa Ershadi, Ananya Bhattacharjee, Judith Amores, Ebele Okoli, Ann Paradiso, Shahed Warreth, Jina Suh
Under-Review	<b>A Framework for Situating Innovations, Opportunities, and Challenges in Advancing Vertical Systems with Large AI Models</b> (Paper Link) <i>Gaurav Verma, Jiawei Zhou, Mohit Chandra, Srijan Kumar, Munmun De Choudhury</i>
Under-Review	<b>Towards Experience-Centered AI: A Framework for Integrating Lived Experience in Design and Development</b> <i>Sanjana Gautam, Mohit Chandra, Ankolika De, Tatiana Chakravorti, Girik Malik and Munmun De Choudhury</i>
ACM FAccT 2025	<b>From Lived Experience to Insight: Unpacking the Psychological Risks of Using AI Conversational Agents</b> (Paper Link) <i>Mohit Chandra, Suchismita Naik, Denae Ford, Ebele Okoli, Munmun De Choudhury, Mahsa Ershadi, Gonzalo Ramos, Javier Hernandez, Ananya Bhattacharjee, Shahed Warreth, Jina Suh</i>

NAACL 2025	<p><b>Lived Experience Not Found: LLMs Struggle to Align with Experts on Addressing Adverse Drug Reactions from Psychiatric Medication Use</b> (Paper Link)</p> <p><i>Mohit Chandra, Siddharth Sriraman, Gaurav Verma, Harneet Singh Khanuja, Jose Suarez Campayo, Zihang Li, Michael L. Birnbaum, Munmun De Choudhury</i></p>
Web Conference 2024	<p><b>Better to Ask in English: Cross-Lingual Evaluation of Large Language Models for Healthcare Queries</b> (Paper Link)</p> <p><i>Yiqiao Jin*, Mohit Chandra*, Gaurav Verma, Yibo Hu, Munmun De Choudhury, Srijan Kumar (* Equal contribution)</i></p>
AAAI 2025 GoodData Workshop	<p><b>MedHalu: Hallucinations in Healthcare Queries by Large Language Models</b> (Paper Link)</p> <p><i>Vibhor Agarwal, Yiqiao Jin, Mohit Chandra, Munmun De Choudhury, Nishanth Sasstry, Srijan Kumar</i></p>
EMNLP 2024	<p><b>Towards Massively Multi-domain Multilingual Readability Assessment</b> (Paper Link)</p> <p><i>Tarek Naous, Michael J. Ryan, Anton Lavrouk, Mohit Chandra, Wei Xu</i></p>
ACM WebSci 2023	<p><b>What Makes Some Workplaces More Favorable to Remote Work? Unpacking Employee Experiences During COVID-19 Via Glassdoor</b> (Paper Link)</p> <p><i>Mohit Chandra, Munmun De Choudhury</i></p>
ACM Hypertext 2021	<p><b>“A Virus Has No Religion”: Analyzing Islamophobia on Twitter During the COVID-19 Outbreak</b> (Paper Link)</p> <p><i>Mohit Chandra*, Manvith Reddy*, Shradha Sehgal*, Saurabh Gupta, Arun Balaji Buduru, Ponnurangam Kumaraguru (* Equal contribution)</i></p>
ACM WebSci 2021	<p><b>“Subverting the Jewtocracy”: Online Antisemitism Detection Using Multi-modal Deep Learning</b> (Paper Link)</p> <p><i>Mohit Chandra, Dheeraj Pailla, Himanshu Bhatia, Aadil Mehdi Sanchawala, Manish Gupta, Manish Shrivastava, Ponnurangam Kumaraguru</i></p>
COLING 2020	<p><b>AbuseAnalyzer: Abuse Detection, Severity and Target Prediction for Gab Posts</b> (Paper Link)</p> <p><i>Mohit Chandra, Ashwin Pathak, Eesha Dutta, Paryul Jain, Manish Gupta, Manish Shrivastava, Ponnurangam Kumaraguru</i></p>
IEEE TNNLS	<p><b>Exact Passive-Aggressive Algorithms for Ordinal Regression Using Interval Labels</b> (Paper Link)</p> <p><i>Naresh Manwani, Mohit Chandra</i></p>

## WORK EXPERIENCE

### Research Intern Microsoft Research

May 2024 - August 2024  
Redmond, WA, USA

- Interned in the Human Centered AI Experiences group (HCAIX) under the mentorship of Dr. Jina Suh and Dr. Javier Hernandez. Conducted two research studies (longitudinal study and focus group study) to understand and quantify the psychological impacts of generative AI conversational agents on users, aiming to enhance well-being through human-centered AI design.
- Worked on two publications focusing on – (1) development of AI-risk taxonomy and policy guidelines for researchers and developers, (2) conducting longitudinal experimental studying the impact of social and emotional use of AI Conversational Agent.

**Graduate Research Assistant (PhD Advisee)**  
**SocWeb Lab (Georgia Institute of Technology)**

January 2022 - Present  
*Atlanta, GA, USA*

- Working as a GRA under the supervision of Prof. Munmun De Choudhury. My current research project focuses on examining the efficacy of generative AI based mental health support interventions, with a focus on understanding their impact on the end user, limitations of the deployed system, and the potential for responsible integration into real-world support systems.
- Previously, I have worked on projects exploring the cross-lingual capabilities of LLMs, evaluating their effectiveness in mental health-related conversations, analyzing psychological risks associated with AI use, investigating hallucinations in LLM responses, and conducting social media content analysis. My past works have led to multiple top-tier publications.

**Software Engineer (ML)**  
**Microsoft, IDC**

July 2020 - August 2022  
*Hyderabad, India*

- Developed and shipped language models for Automated Speech Recognition Systems for Indic Languages in *Hindi, Bengali, Malayalam*. The new shipped models achieved an average reduction of 5-10% WERR.
- Developed and maintained the end-to-end pipeline for the tech segment of Bing.com. Developed a novel pipeline framework to ingest new QnA related to tech trivia in an automated manner. The new pipeline improved the coverage numbers by 7M in DSQ and 180K in Shown DAU.

**Research Associate**  
**Georgia Institute of Technology**

June 2021 - June 2022  
*Remote*

- Worked as a Research Associate under the supervision of Prof. Munmun De Choudhury. My work aimed at examining the effect of the COVID-19 pandemic on employees at their respective workplaces.
- Specifically worked on developing a predictive framework based on employee reviews that predicts whether an organization will be considered a good place to work in the post-COVID-19 era.

**Research Assistant**  
**Precog Research Group (IIIT-Hyderabad)**

December 2018 - December 2020  
*Hyderabad, India*

- Worked as an RA under the supervision of Prof. Ponnurangam Kumaraguru. The work focused on the topic of detection and analysis of hate speech on social media platforms.
- Specifically, worked on three publications that included works on general-purpose abuse detection, multimodal Antisemitism detection, and a large-scale quantitative study analyzing Islamophobia on Twitter.

**Open Source Developer**  
**Sympy (Python Software Foundation)**

September 2016 - May 2017  
*Hyderabad, India*

- Worked on several modules related to core Mathematics and Physics areas such as Vector Mathematics, Matrices, Combinatorics, and Integration. Added modules for Directional Derivatives and simplification of Gamma functions.

## TEACHING EXPERIENCE

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**Graduate Teaching Assistant (Artificial Intelligence CS 6601)**  
**Georgia Institute of Technology**

January 2023 - May 2023  
*Atlanta, GA*

- As TA Instructor: Delivered lectures twice a week focusing on the basics of Natural Language Processing to a class comprising graduate and undergraduate students.
- As Tutor: Hosted office hours, provided one-on-one tutoring, and graded exam papers.

**Teaching Assistant (Design and Analysis of Software Systems)**  
**IIIT Hyderabad**

Jan 2020 - May 2020  
*Hyderabad, India*

- As Head TA: Co-designed the course structure with the instructor. Additionally, I handled communication with 50+ industry clients for projects.
- As Tutor: Delivered tutorials, hosted office hours, created and graded assignments and examination papers.

**Teaching Assistant (Operating Systems)**  
**IIIT Hyderabad**

August 2019 - December 2019  
*Hyderabad, India*

- As Head TA: Delivered tutorial lectures covering practical aspects of basic operating system concepts.
- As Tutor: Hosted office hours, created and graded assignments and examination papers.

**Teaching Assistant (Distributed Systems)**  
**IIIT Hyderabad**

January 2019 - May 2019  
*Hyderabad, India*

- As Tutor: Delivered tutorials, hosted office hours, created and graded assignments and examination papers.

**Teaching Assistant (Introduction to AI)**  
**IIIT Hyderabad**

January 2018 - December 2018  
*Hyderabad, India*

- As Tutor: Delivered tutorials, hosted office hours, created and graded assignments and examination papers.

## SKILLS

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<b>Programming</b>	Python, C, C++, C#, SQL, HTML/CSS, Javascript, Pytorch, Flask, R, Dedoose, L <sup>A</sup> T <sub>E</sub> X, Git, Qualtrics
<b>Subjects/Domains</b>	Natural Language Processing, Deep Learning, Social Computing, Computational Social Science, Data Science, Web Development, Qualitative Analysis, Conducting Survey Studies, Conducting Longitudinal Study

## AWARDS & RECOGNITIONS

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2025	Selected as one of 100 Computer Science students worldwide to attend the 12 <sup>th</sup> Heidelberg Laureate Forum 2025.
2025	Awarded Runner-up in the CoC Graduate Poster Symposium 2025.
2024	One among 5 scholarship recipients from Georgia Tech to attend the ACM Tapia Conference 2024.
2019	Dean's Research award for publishing a paper in a top-tier journal
2017-2019	Dean's Merit List award for Academic Excellence

## SERVICE

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<b>Reviewing</b>	ICWSM 2021, EMNLP 2022, ICWSM 2024, CSCW 2024, CHI 2025, WWW 2025, EMNLP 2025
<b>Organizing</b>	HCI Southeast Meetup 2024
<b>Mentoring</b>	<b>Graduate Students:</b> Siddharth Sriraman, Anush Mattapalli, Harneet Singh Khanuja, Irene Stephen Komal, Nabin Kim, Malav Patel, Eesha Dutta <b>Undergraduate Students:</b> Aarya Doshi, Benjamin Levy, Mei Li, Nicholas Chang, Shradha Seghal, Manvith Reddy, Dheeraj Pailla, Himanshu Bhatia, Aadil Mehdi Sanchawala, Ashwin Pathak

## INVITED TALKS

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- February, 2025 Computational Methods for Social Computing. CS 6474/CS 4803 (Social Computing)  
January, 2025 Psychological Impact of Conversational AI Use. AI & Society Research Talk, Microsoft Research  
February, 2024 Computational Methods for Social Computing. CS 6474/CS 4803 (Social Computing)

## PRESS COVERAGE

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- May, 2025 AI Chatbots Aren't Experts on Psych Med Reactions — Yet [Georgia Institute of Technology]  
May, 2024 Chatbots Are Poor Multilingual Healthcare Consultants, Study Finds. [Georgia Institute of Technology]  
April, 2024 Chatbots Struggle to Answer Medical Questions in Widely Spoken Languages. [Scientific American]  
April, 2024 Chatbots making mistakes when translating medical advice in some languages. [The World]  
June, 2023 Flexible, Supportive Company Culture Makes For Better Remote Work. College of Computing Press. [Georgia Institute of Technology]

## LEADERSHIP

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| <b>Graduate School Application Mentor</b>          | Mentored 20+ students in the past three years for graduate school applications through 1:1 sessions.                |
| <b>Coordinator, Alumni Cell IIIT-H (2017-2019)</b> | Responsible for organizing events, mentoring sessions and managing alumni-student events along with alumni affairs. |
| <b>Coordinator, Content Team (Felicity 2018)</b>   | Responsible for creating content to promote various events of the college's annual fest "Felicity".                 |