MOHIT CHANDRA

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RESEARCH SUMMARY

I'm a 3rd-year CS Ph.D. student interested in the intersection of Human-Centered AI and Social Computing. My research focuses on developing methodologies to evaluate and improve the quality of information produced by generative AI models, emphasizing on attributes such as actionability, personalization, and potential risks for aligning them with human preferences and requirements. The goal of my research is to develop robust frameworks and methods for evaluating and enhancing the safety and reliability of generative AI systems, contributing towards advancing state-of-the-art methods in Foundation Models and Human-centered AI.

EDUCATION

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

Under Review	**Lived Experience Not Found: LLMs Struggle to Align with Experts on Addressing Adverse Drug Reactions from Psychiatric Medication Use** (Paper Link) *Mohit Chandra, Siddharth Sriraman, Gaurav Verma, Harneet Singh Khanuja, Jose Suarez Campayo, Zihang Li, Michael L. Birnbaum, Munmun De Choudhury*
Under Review	**From Lived Experience to Insight: Unpacking the Psychological Risks of Using AI Conversational Agents** (Paper Link) *Mohit Chandra, Suchismita Naik, Denae Ford, Ebele Okoli, Munmun De Choudhury, Mahsa Ershadi, Gonzalo Ramos, Javier Hernandez, Ananya Bhattacharjee, Shahed Warreth, Jina Suh*
Web Conference 2024	**Better to Ask in English: Cross-Lingual Evaluation of Large Language Models for Healthcare Queries** (Paper Link) *Yiqiao Jin*, Mohit Chandra*, Gaurav Verma, Yibo Hu, Munmun De Choudhury, Srijan Kumar (* Equal contribution)*
Under-Review	**Understanding the Humans Behind Online Misinformation: An Observational Study Through the Lens of the COVID-19 Pandemic** (Paper Link) *Mohit Chandra, Anush Mattapalli, Munmun De Choudhury*
Under-Review	**MedHalu: Hallucinations in Healthcare Queries by Large Language Models** (Paper Link) *Vibhor Agarwal, Yiqiao Jin, Mohit Chandra, Munmun De Choudhary, Nishanth Sastry, Srijan Kumar*
EMNLP 2024	**Towards Massively Multi-domain Multilingual Readability Assessment** (Paper Link) *Tarek Naous, Michael J. Ryan, Anton Lavrouk, Mohit Chandra, Wei Xu*
ACM WebSci 2023	**What Makes Some Workplaces More Favorable to Remote Work? Unpacking Employee Experiences During COVID-19 Via Glassdoor** (Paper Link) *Mohit Chandra, Munmun De Choudhury*

ACM Hypertext 2021	**"A Virus Has No Religion": Analyzing Islamophobia on Twitter During the COVID-19 Outbreak** (Paper Link) *Mohit Chandra*, Manvith Reddy*, Shradha Sehgal*, Saurabh Gupta, Arun Balaji Buduru, Ponnurangam Kumaraguru (* Equal contribution)*
ACM WebSci 2021	**"Subverting the Jewtocracy": Online Antisemitism Detection Using Multimodal Deep Learning** (Paper Link) *Mohit Chandra, Dheeraj Pailla, Himanshu Bhatia, AadilMehdi Sanchawala, Manish Gupta, Manish Shrivastava, Ponnurangam Kumaraguru*
COLING 2020	**AbuseAnalyzer: Abuse Detection, Severity and Target Prediction for Gab Posts** (Paper Link) *Mohit Chandra, Ashwin Pathak, Eesha Dutta, Paryul Jain, Manish Gupta, Manish Shrivastava, Ponnurangam Kumaraguru*
IEEE TNNLS	**Exact Passive-Aggressive Algorithms for Ordinal Regression Using Interval Labels** (Paper Link) *Naresh Manwani, Mohit Chandra*

WORK EXPERIENCE

Research Intern — May 2024 - August 2024
Microsoft Research — *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.

- Currently working on two publications developing AI-risk taxonomy and policy guidelines for researchers and developers, aimed at aligning generative AI technologies towards safeguarding psychological well-being of individuals using those.

Graduate Research Assistant (PhD Advisee) — January 2022 - Present
SocWeb Lab (Georgia Institute of Technology) — *Atlanta, GA, USA*

- Working as a GRA under the supervision of Prof. Munmun De Choudhury. My current research projects focus on understanding the different aspects of information inequity arising from the use of Generative AI and social media platforms especially in general healthcare and mental health domain.

- Currently working on benchmarking large language models for mental health case-studies. Previously worked on publications focusing on developing a cross-lingual evaluation framework for LLMs for healthcare queries and cross-topic misinformation analysis through a causal framework.

Software Engineer (ML) — July 2020 - August 2022
Microsoft, IDC — *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   June 2021 - June 2022
[Georgia Institute of Technology]   *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   December 2018 - December 2020
[Precog Research Group (IIIT-Hyderabad)]   *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   September 2016 - May 2017
[Sympy (Python Software Foundation)]   *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

Graduate Teaching Assistant (Artificial Intelligence CS 6601)   January 2023 - May 2023
[Georgia Institute of Technology]   *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)   Jan 2020 - May 2020
[IIIT Hyderabad]   *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)   August 2019 - December 2019
[IIIT Hyderabad]   *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)   January 2019 - May 2019
[IIIT Hyderabad]   *Hyderabad, India*

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

Teaching Assistant (Introduction to AI)   January 2018 - December 2018
[IIIT Hyderabad]   *Hyderabad, India*

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

SKILLS

Programming	Python, C, C++, C#, SQL, HTML/CSS, Javascript, Pytorch, Flask, R, Dedoose, LaTeX, Git, Qualtrics
Subjects/Domains	Natural Language Processing, Deep Learning, Social Computing, Computational Social Science, Data Science, Web Development, Qualitative Analysis, Conducting Survey Studies, Conducting Longitudinal Study

AWARDS & RECOGNITIONS

2024	One among five 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

INVITED TALKS

February, 2024	Computational Methods for Social Computing. CS 6474/CS 4803 (Social Computing)

PRESS COVERAGE

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]

SERVICE

Reviewing	ICWSM 2021, EMNLP 2022, ICWSM 2024, CSCW 2024, CHI 2025, WWW 2025
Organizing	HCI Southeast Meetup 2024
Mentoring	*Graduate Students*: Siddharth Sriraman, Anush Mattapalli, Harneet Singh Khanuja, Irene Stephen, Malav Patel, Eesha Dutta
	Undergraduate Students: Aarya Doshi, Benjamin Levy, Nicholas Chang, Shradha Sehgal, Manvith Reddy, Dheeraj Pailla, Himanshu Bhatia, AadilMehdi Sanchawala, Ashwin Pathak

LEADERSHIP

Coordinator, Alumni Cell IIIT-H (2017-2019)	Responsible for organizing events, mentoring sessions and managing alumni-student events along with alumni affairs.
Coordinator, Content Team (Felcity 2018)	Responsible for creating content to promote various events of the college's annual fest "Felicity".