

MOHIT CHANDRA

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RESEARCH SUMMARY

I'm a 2nd-year CS Ph.D. student interested in the intersection of NLP for Social Good and Social Computing. I use computational methods from NLP and theoretical frameworks from Social Sciences to analyze the quality of information consumed by people, addressing problems around misinformation, and partial information.

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 (Honours) & M.S, Computer Science and Engineering 08/2015 - 07/2021
International Institute of Information Technology, Hyderabad **Cumulative GPA: 9.04/10**

PUBLICATIONS

- 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
- 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 **Towards Massively Multi-domain Multilingual Readability Assessment** (Paper Link)
Tarek Naous, Michael J. Ryan, 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, Aadil Mehdi 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

EXPERIENCE

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

- Working as an RA under the supervision of Prof. Munmun De Choudhury. My current research projects focus on health-related misinformation on social media platforms and Large Language Models.
- Previously worked on publications focusing on cross-lingual framework for LLMs in healthcare and cross-topic misinformation analysis through 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 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.

Teaching Assistant August 2017 - May 2020
IIIT Hyderabad Hyderabad, India

- **Design and Analysis of Software Systems** (Jan 2020 - May 2020; Aug 2017 - Nov 2017), **Operating Systems** (Aug 2019 - Dec 2019), **Distributed Systems** (Dec 2018 - May 2019), **Statistical Methods in AI**(Dec 2017 - Dec 2018).

SKILLS

Programming	Python, C, C++, C#, SQL, HTML/CSS, Javascript, Pytorch, Flask, Dedoose, L ^A T _E X, Git
Subjects/Domains	Natural Language Processing, Deep Learning, Social Computing, Computational Social Science, Data Science, Web Development, Qualitative Analysis

AWARDS & RECOGNITIONS

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

Reviewing	ICWSM 2021, EMNLP 2022, ICWSM 2024, CSCW 2024
Mentoring	Graduate Students: Anush Mattapalli, Malav Patel, Eesha Dutta, Paryul Jain Undergraduate Students: Nicholas Chang, Shradha Sehgal, Manvith Reddy, Dheeraj Pailla, Himanshu Bhatia, AadilMehdi Sanchawala, Ashwin Pathak
Organizing	Coordinator, Alumni Cell IIIT-H (2017-2019) Coordinator, Content Team (Felcity 2018) (2018)