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 study false/incomplete information about healthcare on social media platforms and Large Language Models (LLMs).

EDUCATION

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

Georgia Institute of Technology, Atlanta (GA), USA   **Cumulative GPA: 4.0/4.0**

B.Tech (Honours) & M.S, Computer Science and Engineering   2015 - 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*
Under-Review	**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, 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*

EXPERIENCE

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, Deedoose, LaTeX, 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)